=> d his

(FILE 'HOME' ENTERED AT 12:32:05 ON 04 NOV 2003)

FILE 'REGISTRY' ENTERED AT 12:32:15 ON 04 NOV 2003

STRUCTURE UPLOADED . L1

L2 QUE L1

7 S L2 L3

L41344 S L2 SSS FUL

FILE 'CAPLUS' ENTERED AT 12:34:24 ON 04 NOV 2003

L5 133 S L4

FILE 'REGISTRY' ENTERED AT 12:36:05 ON 04 NOV 2003

L6 STRUCTURE UPLOADED

L7 QUE L6

L8 STRUCTURE UPLOADED

QUE L8 L9

254 S L7 SUB=L4 FUL L10L11

113 S L9 SUB=L4 FUL

347 S L10 OR L11 L12

FILE 'CAPLUS' ENTERED AT 12:37:25 ON 04 NOV 2003

64 S L12

FILE 'REGISTRY' ENTERED AT 12:37:41 ON 04 NOV 2003

L14692 S L4 AND NRS>2

L15 200 S L12 AND NRS>2

L16 147 S L12 NOT L15

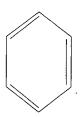
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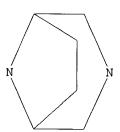
L17 39 S L15

=> d 12

L2 HAS NO ANSWERS

STR



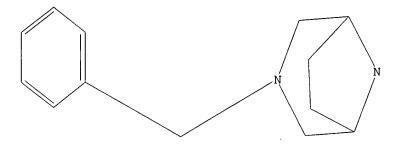


Structure attributes must be viewed using STN Express query preparation. L2QUE ABB=ON PLU=ON L1

=> d 17

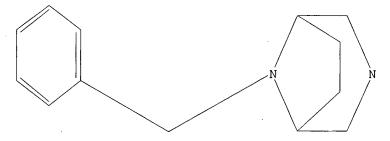
L7 HAS NO ANSWERS

STR



Structure attributes must be viewed using STN Express query preparation. L7 QUE ABB=ON PLU=ON L6

=> d 19 L9 HAS NO ANSWERS L8 STR



Structure attributes must be viewed using STN Express query preparation. L9 $$\tt QUE $\tt ABB=ON $\tt PLU=ON $\tt L8$$

=> d ibib abs hitstr 1-39 117

09//972,177 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN 2002:594840 CAPLUS 137:154858 137:154858
Preparation of arylsulfonamidopiperidones as inhibitors of Factor Xa.
Stein, Philip P.; O'Connor, Stephen P.; Lawrence, R. Michael; Shi, Yan
Bristol-Myers Squibb Company, USA
PCT Int. Appl., 246 pp.
CODEN: PIXXD2
Patent CUMENT NUMBER: INVENTOR(5): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002060894 A2 20020808 WO 2002-US2542 20020128

WO 2002060894 A3 20021219

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MW, MX, MZ, NO, NZ, OM, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RY: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SM, TD, TG

US 6555542 B1 20030429 US 2002-59621 20020129

PRIORITY APPLIN. INFO.:

G1 APPLICATION NO. PATENT NO. KIND DATE

Title compds. [I, X = (substituted) (CH2)m; m = 1-3; R1 = (substituted) alkyl, alkenyl, alkynyl, aryl, heteroaryl, etc.; R2, R3 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R4, R41, R5, R51 = H, OH, (substituted) alkyl, alkynyl, cycloalkyl, aryl, heteroaryl, alkoxy, etc.; R6, R61 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R7, R8 = (substituted) (CH2)nH; n = 1-4; R7R8N = (substituted) (SH2)nH; n = 1-3; R1 = (substituted) (SH2)nH; n = 1-4; R7R8N = (sub

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 2002:314941 CAPLUS DOCUMENT NUMBER: 136:340701 DOCUMENT NUMBER: TITLE: 136:340701
Preparation of 3,8-diazabicyclo[3.2.1]octanes for treating cardiac arrhythmias
Bjoersne, Magnus; Hoffmann, Kurt-Juergen; Ponten, Fritiof; Strandlund, Gert; Svensson, Peder; Wilsternann, Michael Astrazeneca AB, Swed, PCT Int. Appl., 135 pp.
CODEN: PIXXOZ INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: FAMILY ACC. NUM. COUNT:

PATENT NO. KIND DATE APPLICATION NO. DATE

The title compds. [1, one of Rl and R2 = Rla and the other = ACR13R14BR15 (wherein Rla = alkyl optionally substituted and/or terminated by one or more groups selected from halo, CN, NO2, etc., Rl3 = H, halo, alkyl, etc., Rl3R14 = O; or Rl4 = H, alkyl, Rl5 = (un)substituted aryl, heteroaryl, A = alkylene, etc., B = a bond, alkylene, etc., Rl3R10 = H, alkyll, useful in the prophylaxis and in the treatment of arrhythmias, in particular atrial and ventricular arrhythmias, were prepd. Thus, reacting tert-Bu

Page 3

ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses)
(prepn. of arylsulfonamidopiperidones as inhibitors of Factor Xa)
445273-60-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-[{(3S)-3-[{(6-bromo-2-naphthalenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-8-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

3-(4-cyanophenoxy)-1-(3,8-diazabicyclo[3,2,1]oct-8ylmethyl)propylcarbanate (prepn. given) with Bulisocyanate in the presence
of Bt3N in MeCN followed by treatment with HCl/EtoAc afforded I [R] =
CONHBUR A2 = CHZCHNHZCHZCHZC-P-CEMKCN: R3-R10 = H] in quant. yield. The
exemplified compds. I showed plc50 values of at least 5.5 for K channel
blockade.

IT 415975-69-8P 415975-70-1P 415976-92-0P
415977-80-99 415977-64-9P 415977-72-9P
415977-80-99 415977-86-5P 415977-95-6P
415978-02-8P
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3,8-diazabicyclo(3.2.1)octanes for treating cardiac arrhythmias) 415975-69-8 CAPLUS Benzonitrile, 4-[(2S)-2-amino-3-[3-{phenylmethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl]propoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

415975-70-1 CAPLUS
Carbamic acid, [(1S)-1-[(4-cyanophenoxy)methyl]-2-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

415976-92-0 CAPLUS
Benzonitrile, 4-[1-(3,4-dimethoxyphenoxy)-4-[3-[(4-fluorophenyl]methyl]3,8-diazabicyclo[3,2.1]oct-8-yl]butyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

415977-56-9 CAPLUS
Benzonitrile, 4-4-7-{3-(4-fluorophenyl)methyl)-3,8-diazabicyclo[3.2.1]oct-8-yl-2-hydroxypropoxyl- (9CI) (CA INDEX NAME)

41597-64-9 CAPLUS
Benconitrile, 4-[3--[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]propyl]mmino]- (9CI) (CA INDEX NAME)

NH- (CH2) 3

415977-72-9 CAPLUS (Benzonitrile, 4-{2-{3-{(4-fluorophenyl)methyl}-3,8-diazabicyclo[3,2.1]oct-8-yl]ethoxy| - (SCI) (CA INDEX NAME)

NC O-CH₂-CH₂-
$$N$$
 N-CH₂ F

415977-80-9 CAPLUS
Benzonitrile, 4-[[3-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl)propyl]sulfonyl]- (9CI) (CA INDEX NAME)

ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
17740-41-9P 415979-11-2P 415979-13-4P
415979-15-6P 415979-34-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of 3,8-diazabicyclo[3.2.1]octanes for treating cardiac
arrhythmias)
17740-41-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)-,
monohydrochloride (9CI) (CA INDEX NAME)

415979-11-2 CAPLUS Benzonitrile, 4-[2-hydroxy-3-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]propoxy]- (GC1 (CA INDEX NAME)

415979-13-4 CAPLUS Benzonitrile, 4-[[3-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yllpropyl]amino]- (9CI) (CA INDEX NAME)

– ин – (CH2) э CH2-Ph

415979-15-6 CAPLUS Benzonitrile, 4-[1-(3,4-dimethoxyphenoxy)-4-[3-(phenylmethy1)-3,8-diazabicyclo[3.2.1]oct-8-y1]buty1]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

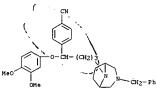
415977-86-5 CAPLUS
1,3-Benzenedicarbonitrile, 4-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]ethoxy]- (9CI) (CA INDEX NAME)

415977-95-6 CAPLUS
Carbamic acid, [(1S)-2-(4-cyanophenoxy)-1-[[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

415978-02-8 CAPLUS
Benzonitrile, 4-[3-amino-4-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]butoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



415979-34-9 CAPLUS Carbamic acid, [(1S)-1-[(4-cyanophenoxy)methyl]-2-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
136:340711
Bridged piperazine derivatives, specifically
3,8-diazabicyclo[3.2.1]octane, 2,5diazabicyclo[2.2.2]octane, and 3,9diazabicyclo[3.3.1]nonane derivatives, useful as
inhibitors of chenokines binding to CCR1 receptors,
for treating inflammation and other immune disorders.
Blumberg, Laura Cooks Brown, Matthew Frank; Glaude,
Ronald Paul; Poss, Christopher Stanley
PATENT ASSIGNEE(S):
POCUMENT TYPE:
PATENT ASSIGNEE(S):
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
English
English
English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$\begin{array}{c} \text{H}_2\text{N-CH}_2\text{-CH}_2\text{-NH-C} \\ \\ \text{C}_1 \end{array} \\ \begin{array}{c} \text{O} \\ \text{CH}_2\text{-CH}_2\text{-CH}_2 \\ \\ \text{O} \end{array} \\ \begin{array}{c} \text{N} \\ \text{N} \\ \text{CH}_2 \\ \\ \text{F} \end{array}$$

417726-79-5 CAPLUS 3,8-Diazabicyclo[3,2,1]octane, 8-[(2-amino-5-chlorophenoxy)acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-83-1 CAPLUS 3,8-Diazabicyclo[3,2,1]octane, 8-{[(3-amino-5-chloro-2-pyridinyl)oxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-39-7P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-nitro-4-trifluoromethylphenoxy) ethanone 417726-40-0P, 4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylphenzamide 417726-41-P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-ethoxycarboxyl-4-chlorophenoxy) ethanone 417726-42-2P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-actyl-5-chlorophenoxy) ethanone 417726-43-3P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-outfamoyl-5-chlorophenoxy) ethanone 417726-44-4P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-outfamoyl-5-chlorophenoxy) ethanone 417726-45-5P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-(2-outfamoyl)-5-chlorophenoxyl ethanone 417726-46-6P, 5-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3,9-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyl)-3-0x0ethoxyl)-3-0x0ethoxyl-3-3-3-3-3-3-3-3-3-3-3-3-3-

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$R-\{z\}-\{Y\}_{m}-\{X\}_{q}$$

Compds. I and their pharmaceutically acceptable salts, useful for treatment of inflammation and other immune disorders, are disclosed [Wherein: n = 1-5; m = 1-5; q = 0-1; a, b, c = (CH2) o-4 [independently]; a, b, and c cannot all be null; if a and/or c is not null, then b must be null; w = CH or N, X = CO, C(S), or CH2; Y = CH2; Z = 0, (un) substituted NH or (un) substituted CH2; R = certain (un) substituted (hetero) aryl or (hetero) cycloalky1; R1 = (independently); H, OH, SO3H, halo, alky1, SH, CF3, wide variety of other substituents]. The compds. are useful for treatment of a wide variety of diseases and disorders, which are cited specifically in claims. Approx. 100 specific examples of I are given, many with synthetic details. For example, 3-(4-fluorobenzy)-3,8-diazabicyclo(3.2.1] octan-2-one (prepn. given) underwent a sequence of: (1) redn. of the amide carbonyl using LiAlH4 (941); (2) 8-N-acylation with chloroacetyl chloride (694); and (3) etherification with 2-nitro-4-trifluoromethylphenol (581), to give title compd. II. In a bioassay for the ability to inhibit chemotaxis of various cells (fHF-1 cells, primary human monocytes, or primary lymphocytes) in vitro, all example compds. had ICSO values of less than 10. mu.M.
417726-56-94 41726-79-5P, 2-(2-Amino-5-chlorophenoxy)-1-(3-(4-fluorobenzy)-3,8-diazabicyclo(3.2.1] oct-8-y1] ethanone
417726-3-1P, 2-(3-Amino-5-chloropyridin-2-yloxy)-1-1-3-(4-fluorobenzy)-3,8-diazabicyclo(3.2.1] oct-8-y1] ethanone
RL: PAC (Pharmacological activity); RCT (Reactant). SFN (Synthetic preparation); RTM (Therapeutic use); BIOL (Biological study); PREP (Preparation); RTM (Therapeutic use); BIOL (Biological study); PREP (Preparation); RTM (Reactant or reagent); USES (Uses)
Chamokines binding to CCR1 receptors)
417726-56-8. CAPLUS
Benzamide, N-(2-aminoethyl)-4-chloro-2-(2-[3-[4-fluorophenyl)methyl)-3,8-diazabicyclo(3.2.1] oct-8-y1)-2-oxeethoxy)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
5-Methoxy-2-[2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2oxoethoxy]benzamide 417726-50-2P, 4-chloro-2-[2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]-1-nitrobenzene
417726-51-3P, 2-(5-Chloroquinolin-8-yloxy)-1-[3-(4-fluorobenzyl)-1,8-diazabicyclo[3.2.1]oct-8-yl]-2-(6-methyl)-2nitropyridin-3-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2nitropyridin-3-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone
417726-57-7P, 2-(5-Chloro-3-methoxycarbonylpyridin-2-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone
417726-57-7P, 2-(5-Chloro-3-methoxycarbonylpyridin-2-yloxy)-1-[3(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone
417726-57-7P, 2-(5-Chloro-3-methoxycarbonylpyridin-2-yloxy)-1-[3(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-58-0P
, 4-Methyl-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-59-1P, 4-Methoxy-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-61-5P
, 4-Methyl-2-[3-(3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-61-5P
, 4-Methyl-2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-69-P, 4-Chlorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-69-P, 4-Chlorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-69-P, 4-Chlorobenzyl-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-69-P, 4-Chlorobenzyl-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-60-P, 4-Chlorobenzyl-3,8-diazabi

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) diazabicyclo[3.2.1]oct-8-y1]ethanone 417726-85-3p, 2-Amino-N-[5-chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-3-y1]ethanone 417726-86-4p, N-[5-Chloro-2-[2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-y1]-2-oxoethoxy|phenyl]-3-hydroxy-3-methylbutyramide 417726-87-5p, N-[4-Chloro-2-[2-]3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]methanesulfonamide 417726-88-6p, N-[5-Crifluoromethyl)-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]methanesulfonamide 417726-99-7p, N-[5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]methanesulfonamide 417726-90-0p, N-[2-[[4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]carbonyl]amino|ethyl]methanesulfonamide 417726-91-1P, N-[5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]methanesulfonamide 417726-91-1P, N-[5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|phenyl]methanesulfonamide 417726-91-2P, N-[5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-3-y1]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-93-3P, N-[6-Methyl-3-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-99-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-99-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-99-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-99-7P, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy|pyridin-2-y1]methanesulfonamide 417728-99-7P, 5-Chloro-2-[2-[3-(4-f

(Uses)
(drug candidate; prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCR1 receptors)
417726-39-7 CAPLUS
3,8-Diazabicyclo[3,2.1]octane, 3-[(4-fluoropheny1)methy1]-8-[[2-nitro-4-(trifluoromethy1)phenoxy]acety1]- (9CI) (CA INDEX NAME)

RN 417726-40-0 CAPLUS
CN Benzamide, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-45-5 CAPLUS
CN Benzeneacetic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 417726-46-6 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[[2-{aminosulfonyl}-4-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-47-7 CAPLUS
CN 3,8-Diazabicyclo(3.2.1)octane, 3-[[2-(aminosulfonyl)-5-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RN 417726-41-1 CAPLUS
CN Benzoic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy|-, ethyl ester (9CI) (CA INDEX

RN 417726-42-2 CAPLUS
CN 3,8-Diazabicyclo[3,2,1]octane, 8-[(2-acetyl-5-chlorophenoxy)acetyl]-3-[(4-fluoropheny)methyl]- (9CI) (CA INDEX NAME)

RN 417726-43-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[2-(aminosulfonyl)-5-chlorophenoxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ H_2N-S=0 & \\ & & & \\$$

RN 417726-44-4 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[2-nitro-5-(trifluoromethyl)phenoxy]acetyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-48-8 CAPLUS
CN Benzamide, 4-chloro-2-[2-[8-[(4-fluoropheny1)methy1]-3,8-diazabicyclo[3,2.1]oct-3-y1]-2-oxosthoxy]- (9CI) (CA INDEX NAME)

RN 417726-49-9 CAPLUS
CN Benzamide, 2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]-5-methoxy- (9CI) (CA INDEX NAME)

$$\label{eq:ch2} \begin{picture}(20,0) \put(0,0){\line(0,0){100}} \put(0,0)$$

RN 417726-50-2 CAPLUS
CM 3,8-Dlazabicyclo[3,2,1]octane, 3-((5-chloro-2-nitrophenoxy)acetyl]-8-[(4-fluoropheny)acetyl]-9-[(CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 417726-51-3 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 8-[{(5-chloro-8-quinolinyl)oxy}acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-52-4 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[(6-methyl-2-nitro-3-pyridinyl)oxy]acetyl]- (9CI) (CA INDEX NAME)

417726-53-5 CAPLUS
3,8-Diazabicyclo{3.2.1}octane, 8-[{(5-chloro-3-nitro-2-pyridinyl)oxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-54-6 CAPLUS
3-Pyridinecarboxamide, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

417726-59-1 CAPLUS
Benzoic acid, 2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxyl-4-methoxy- (9CI) (CA INDEX NAME)

417726-60-4 CAPLUS
Benzolc acid, 2-{2-{3-{(4-fluorophenyl)methyl}-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-ocethoxy]-4-iodo- (9CI) (CA INDEX NAME)

417726-61-5 CAPLUS Benzoic acid, 4-bromo-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

417726-62-6 CAPLUS Benzeneacetic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2:]joct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

417726-55-7 CAPLUS
3-Pyridinecarboxylic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)

417726-57-9 CAPLUS
Benzoic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxyl- (SCI) (CA INDEX NAME)

417726-58-0 CAPLUS
Benzoic acid, 2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-ocethoxyl-4-methyl- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

417726-63-7 CAPLUS
Benzoic acid, 5-chloro-2-{2-{8-{(4-fluorophenyl)methyl]-3,8-diazabicyclo{3,2,1}oct-3-yl}-2-oxoethoxy]- {9CI} (CA INDEX NAME)

417726-64-8 CAPLUS
3-Pyridinecarboxylic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

417726-65-9 CAPLUS 2-Naphthalenecaboxylic acid, 3-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo(3,2,1)oct-8-yl]-2-oxoethoxyl- (9CI) (CA INDEX NAME)

417726-66-0 CAPLUS
2-Naphthalenecarboxylic acid, 4-chloro-1-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

Page 7

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-67-1 CAPLUS
CN Benzamide, 5-chloro-2-[2-[3-[(4-fluorophenyl]methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

RN 417726-68-2 CAPLUS CN Glycine, N-[4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]benzoyl]- (9CI) (CA INDEX NAME)

RN 417726-69-3 CAPLUS
CN Benzamide, 4-chloro-2-[2-{3-{(4-fluorophenyl)methyl}-3,8diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy}-N-(methylaulfonyl)- (9CI) (CA
INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-73-9 CAPLUS

Senzamide, N-{2-{(aminocarbonyl)amino]ethyl}-4-chloro-2-{2-{3-{(4-fluorophenyl)methyl}-3,8-diazabicyclo[3.2.1]oct-8-yl}-2-oxoethoxy]- (9CI)

(CA INDEX NAME)

RN 417726-74-0 CAPLUS
Acetamide, 2-[[[[5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxoethoxy]phenyl]amino]carbonyl]amino]-(9Cl) (CA INDEX NAME)

RN 417726-75-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[2-[(aminocarbonyl)amino]-5-chlorophenoxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-70-6 CAPLUS

Benzamide, 4-chloro-2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

RN 417726-71-7 CAPLUS
CN Benzamide, N-(2-amino-2-oxoethyl)-4-chloro-2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

RN 417726-72-8 CAPLUS
3-Pyridinecarboxamide, N-(2-amino-2-oxoethyl)-5-chloro-2-[2-[3-[4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (GCI NNEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-76-2 CAPLUS
CN .beta.-Alanine, N-[[[4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxosthoxy]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

RN 417726-77-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[[2-[(aminocarbonyl)amino]-4-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-78-4 CAPLUS
Acetamide, 2-[[[[5-chloro-2-[2-[3-[[4-fluorophenyl]methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-3-pyridinyl]amino]carbonyl]amino
]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-80-8 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[2-amino-4-(trifluoromethyl)phenoxy]acet
yl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-81-9 CAPLUS
CN 3,8-Diazabicyclo[3,2.1]octane,8-{(2-amino-4-chlorophenoxy)acetyl]-3-{(4-fluorophenyl)acetyl]- (SCI) (CA INDEX NAME)

RN 417726-82-0 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(2-amino-4-chlorophenoxy)acety1]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-84-2 CAPLUS
CN 3,8-Diazabicyclo[3,2.1]octane, 8-[[(2-amino-6-methyl-3-pyridinyl)oxylacetyl]-3-[(4-fluorophenyl)methyl]- (9CI)
(CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-88-6 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[2[(methylsulfonyl)amino]-4-(trifluoromethyl)phenoxylacetyl]- (9CI) (CA
INDEX NAME)

RN 417726-89-7 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[4-chloro-2-[[methylsulfonyl]amino]phenoxy]acetyl]-3-[[4-fluorophenyl]methyl]- (9CI) (CA INDEX NAME)

RN 417726-90-0 CAPLUS

Senzamide, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazzbicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-N-[2[(methyl=ulfonyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-85-3 CAPLUS
CN Acetamide, 2-amino-N-[5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-3-pyridinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \vdots \\ \vdots \\ H_2N-CH_2-C-NH \\ \vdots \\ C1 \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ N \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ \\ \end{array} \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \begin{array}{c} \vdots \\ \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\$$

FN 417726-86-4 CAPLUS
CN Butanamide, N-[5-chloro-2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-3-yl]-2-oxoethoxy]phenyl]-3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)

RN 417726-87-5 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[5-chloro-2-[(methylsulfonyl)amino]phenoxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$$

RN 417726-91-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(4-chloro-2-[(methylsulfonyl)amino)phenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-92-2 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[5-chloro-3-[(methylsulfonyl)amino]-2-pyridinyl]oxylacetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-93-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[[6-methyl-2[(methylsulfonyl)amino]-3-pyridinyl]oxy]acetyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

417728-09-7 CAPLUS Benzamide, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

IT 417727-51-6P 41727-51-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCR1 receptors)
417727-51-6 CAPLUS
Carbamic acid, [2-[5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxyl-3-pyridinyl]amino]-2-oxoethyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

417727-48-1, 4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxosethoxy]benzoic acid methyl ester 417727-49-2, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxosethoxy]benzoic acid 417727-50-5, 2-(5-Chloro-2-nitrophenoxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]ethanone

ANSWER 4 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SION NUMBER: 2002:104660 CAPLUS ENT NUMBER: 136:151174 136:151174
Preparation of 3-[(arylazabicycloalkyl)alkyl]quinazoli ne-2,4-diones as serotonin reuptake inhibitors and 5-HT2A receptor antagonists Butler, Todd William; Fliri, Anton Franz Josef; Gallaschun, Randall Jemes
Pfizer Products Inc., USA
EUR. Pat. Appl., 68 pp.
CODEN: EPXXDW
Patent INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
			*	
	EP 1178048	A1 20020206	EP 2001-306629	20010802
	R: AT, BE,	CH, DE, DK, ES,	FR, GB, GR, IT, LI, LU,	NL. SE. MC. PT.
		LT, LV, FI, RO		,,,
	US 2002052355	A1 20020502	US 2001-920500	20010801
	US 65\$2015	B2 20030422		
	BR 2001003210	A 20020326	BR 2001-3210	20010803
	JP 2002114789	A2 20020416	JP 2001-236982	20010803
1	PRIORITY APPLN. INFO.	.:	US 2000-222707P P	20000803
(OTHER SOURCE(S):	MARPAT 136:	151174	
(GI			

$$\bigcup_{c_1}^{\circ} \bigvee_{h}^{N} \bigcup_{c_2}^{N} \bigvee_{c_3}^{N} \bigcup_{c_4}^{N} \bigcup_{c_5}^{N} \bigcup_{c_5$$

R(CH2)nZRl [1; e.g., (un)substituted 2,4-dioxoquinazolin-3-yl; Rl = e.g., (un)substituted Ph; Z = azabicycloalkylene; n = 3 or 4) were prepd. Thus, 3,2-Cl(RZR)C6H3COZR undervent cyclocondensation/cyclization with Cl(CH2)NCO to give 8-chloro-3,4-dinydro-2H-loxa-4a,9-diazaanthracene-10-one which underwent aminative ring opening with 3-(4-chlorophenyl)-3,8-diazabicyclo[3,2.1]octane to give title compd. II. Data for biol. activity of I were given. 359059-29-7-8 395059-39-59-P
RL: RCT (Reactant): SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 3-[(arylazabicycloalkyl)alkyl]quinazoline-2,4-diones as serotonin reuptake inhibitors and 5-HT2A receptor antagonists)
395059-29-7 CAPUS
3,8-Diazabicyclo[3,2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RL: RCT (Reactant), RACT (Reactant or reagent)
(precursor; prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCRI receptors)
417727-48-1 CAPLUS
Benzoic acid, 4-chloro-2-[2-[3-{(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)

417727-49-2 CAPLUS Benzoic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

417727-50-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-[(5-chloro-2-nitrophenoxy)acetyl]-3-[(4-fluoropheny)acetyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

L17 ANSWER 4 39 CAPLUS COPYRIGHT 2003 ACS on STN 395059-55 CAPLUS RN CN 38.0 i azabi tyclo[3.2.1] octane, 8-(4-chlorophenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)/ CH2-Ph THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

13

Page 10

WER S OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ON NUMBER: 2002:104659 CAPLUS I NUMBER: 136:151188 MENT NUMBER: 136:151188
Preparation of 3-phenyl-3,8-diazabicyclo[3.2.1]octanes and analogs as serotonin reuptake inhibitors
Fliri, Anton Franz Josef; Gallaschun, Randall James
Pfizer Products Inc., USA
EUr. Pat. Appl., 29 pp.
CODEN: E INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: EP 1178047 A1 20020206 EP 2001-306313 20010723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
1E, S1, LT, LV, FI, RO
BR 2001003180 A 20020326 BR 2001-3180 20010801
US 2002066748 A1 20020606 US 2001-920587 20010801
US 6531468 B2 20030311
DP 2002080084 A2 20020327 JP 2001-235227 20010801
RITY APPLN, INFO: OF 2002088084
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI CASREACT 136:151188; MARPAT 136:151188

R3ZR1 [R1 = (un)substituted Phr R3 = H, alkyl, (hetero)aryl, etc.; Z = e.g., 3,8-diazabicyclo[3.2.1]octane-8,3-diyl] were prepd. as serotonin reuptake inhibitors (no data). Thus, 1-bensyl-2,5-bis(chloromethyl)pyrrolidine (prepn. given) was cyclocondensed with 4-clcGH4NH2 and the product hydrogenolized to give title compd. I. 398038-29-79, 8-Benzyl-3-(4-fluorophenyl)-3,8-diazabicyclo[3.2.1]octane 395059-41-3P, 8-Benzyl-3-(4-chlorophenyl)-3,8-diazabicyclo[3.2.1]octane 395059-55-9P, 3-Benzyl-8-(4-chlorophenyl)-3,8-diazabicyclo[3.2.1]octane Richard (Preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of 3-phenyl-3,8-diazabicyclo[3.2.1]octanes and analogs as serotonin reuptake inhibitors) 395059-29-7 CAPIUS 3,8-Diazabicyclo[3.2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)- (95 AB ΙT

3,8-Diazabicyclo[3.2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:629422 CAPLUS
DOCUMENT NUMBER: 136:200161
TITLE: 3,8-Diazabicyclo-[3.2.1]-octane derivatives as analogues of ambasilide, a Class III antiarrhythmic agent
AUTHOR(S): Villa, S.; Barlocco, D.; Cignarella, G.; Papp, G. J.;
Balati, B.; Takacs, J.; Varro, A.; Borosy, A.; Keseru, K.; Matyus, P.
CORPORATE SOURCE: Balati, B.; Takacs, J.; Varro, A.; Borosy, A.; Keseru, K.; Matyus, P.
SOURCE: European Journal of Medicinal Chemistry (2001), 36(6), 495-506
CODEN: EJMCA5; ISSN: 0223-5234
Editions Scientifiques et Medicales Elsevier Journal
LANOUAGE: Bellish English
AB Ambasilide, a representative of Class III antiarrhythmics, was reported to prolong the cardiac action potential duration in the dog, with little or no effect on Ca and Na currents. A series of ambasilide analogs have been prepd. possessing the 3,8-diazabicyclo-[3.2.1]-octane moiety instead of the 3,7-diazabicyclo-[3.3.1]-nonane present in ambasilide. The compds. Were tested by both in vitro extracellular electrophysiol. assays and by the conventional microelectrode technique. Most compds. tested lengthened the effective refractory period (ERP) with no change or only a slight increase on the impulse conduction time (ICT). Similarly some of the tested compds. lengthened the action potential duration (APD), a typical Class III feature, without exerting any significant effect on the maximal rate of depolarization, therefore apparently lacking Class I antiarrythmic activity.

IT 401514-09-09 401514-13-4P
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PRPP (Preparation); RACT (Reactant or reagent)
(prepn. and conformation energy anal. of antiarrhythmic diazabicyclogoctanes as analogs of ambasilide)

NA 401514-09-0 CAPLUS

NA 9,01514-09-0 CAPLUS

NA 9,01514-09-0 CAPLUS

NA 1,01514-09-0 CAPLUS

401514-13-4 CAPLUS Benzenamine, 4-12-13-(phenylmethyl)-3,8-diazabicyclo{3.2.1}oct-8-yl]ethoxy|- (SCI) (CA INDEX NAME)

H2N. -0-CH₂-CH₂-NN-CH₂-Ph L17 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

395059-41-RN CN clo[3.2.1]octane, 3-(4-chlorophenyl)-8-(phenylmethyl)- (9CI)

Ph-CH2 395059-55-9 CAPLUS 3,8-Diazabicy (CA INDEX NAM Glo[3.2.1]octane, 8-(4-chlorophenyl)-3-(phenylmethyl)- (9CI)

CHo-Ph

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
401514-10-1P 401514-11-2P 401514-12-3P
401514-14-5P 401514-15-6P
RL: PAC (Fharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and conformation energy anal. of antiarrhythmic diazabicyclooctanes as analogs of ambasilide)
401514-10-1 CAPLUS
3,8-Dlazabicyclo[3.2.1]octane, 8-[4-[(methylsulfonyl)amino]benzoyl]-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

401514-11-2 CAPLUS 3,8-Diazabicyclo[3,2,1]octane, 8-[4-[bis(methylsulfonyl)amino]benzoyl]-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

401514-12-3 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 8-(4-nitrobenzoyl)-3-(phenylmethyl)- (9CI)

02N

401514-14-5 CAPLUS Acetamide, N={4-[2-[3-(phenylmethyl)-3,8-diazabicyclo{3.2.1}oct-8-yl}ethoxy]phenyl}- (9Cl) (CA INDEX NAME)

L17 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

401514-15-6 CAPLUS Methanesulfonamide, N-[4-[2-[3-(phenylmethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]ethoxy]phenyl}- (9CI) (CA INDEX NAME)

401514-18-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of antiarrhythmic diazabicyclocotanes via alkylation or amidation of N-protected diazabicyclocotane)
401514-18-9 CAPLUS
3.8-Diazabicyclo[3.2.1]octane, 3-(4-aminobenzoyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) alk(en)yloxy, 2- or 3-indolyl, Ar, Ar-alk(en)yl, Ar = selected (un)substituted carbo- or heterocyclic arom. groups; Q, A = H, Ar, alk(en/yn)yl, cycloalk(en)ylalk(en/yn)yl, their N/O/S-heteroat. analogs, etc.; and their pharmaceutically acceptable salts]. Over 40 examples were prepd. and tested. For instance, (15,5%)-8-benzyl-3,8-diaza-3-(3-phenylpropyl)bicyclo(3.2.1)cotan-2-one (prepn. given) underwent hydrogenolytic debenzylation and amidation with 3,4,5-trimethoxyphenyl-2-coxoacetyl chloride to give title compd. II. In a fluorescence polarization assay of FKEPI2 binding, II gave 344 inhibition at 1 .mu.M, and its 3-(3-pyridyloxy)propyl analog gave 98% inhibition.

34462-40-49 14462-41-8P 34462-45-8P 34462-45-9P 34462-47-1P 344462-81-7P 34462-45-9P 34462-53-P 344462-53-PP 34462-53-PP RIC. RCT (Reactantl) SFN (Synthetic preparation); PREP (Preparation); RACT

344462-53-9P 344462-55-1P

RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent)

(Stereoselective prepn. and biol. activity of bicyclic diamides as neuroprotective agents and peptidylprolyl isomerase (PPIase or rotamase) inhibitors)

344462-40-4 CAPLUS

3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-(3-phenylpropyl)-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-41-5 CAPIJIS

3.8-Diazabicyclo[3.2.1]octan-2-one, 3-(4-phenylbuty1)-8-(phenylmethy1)-, (15.5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-42-6 CAPLUS 3,8-Diazabicyclo(3.2.1)octan-2-one, 8-(phenylmethyl)-3-{3-(3,4,5-trimethoxyhpenyl)propyl)-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

NSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ION NUMBER: 2001:435076 CAPLUS
135:46205
Preparation of neurotrophic bicyclic diamides with peptidylprolyl isomerase (PPlase or rotamase) inhibitory activity
Dubowchik, Gene Michael; Provencal, David Paul ASSIGNEE(s): Bristol-Hyers Squibb Company, USA
1 CODEN: PIXXD2
PATENT
TYPE: Patent

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

The invention relates to the design, synthesis, and the peptidylprolyl isomerase (PFIase or rotamase) inhibitory activity of novel bicyclic diamide compds. that are neuroprotective and/or neurotrophic agents (i.e. compds. capable of stimulating growth or proliferation of nervous tissue), and that bind to immunophilins such as FKPF12 and inhibit their rotamase activity. This invention also relates to pharmaceutical compns. comprising these compds. The compds. are encompassed by structure I (X = 0, F2; n = 1, 2; m = 0, 1, 2; p = 0, 1; D = alk(en)yl, cycloalk(en), AB

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

344462-43-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-{2-{3,4-dimethoxypheny1}ethy1}-8-{phenylmethy1}-, (15,5R)- (9C1) (CA INDEX NAME)

344462-44-8 CAPLUS ,8-Dlazabicyclo[3,2.1]octan-2-one, 3-[3-(3,4-dimethoxyphenyl)propyl]-8-(phenylmethyl)-, (15,5R)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

344462-45-9 CAPLUS 3,8-Dlazabicyclo[3,2,1]octan-2-one, 3-[4-(3,4-dimethoxyphenyl)butyl]-8-(phenylmethyl)-, (15,5%)- (9CI) (CA INDEX NAME)

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 344462-47-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[3-phenyl-1-(2-phenylethyl)propyl]-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 344462-48-2 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-[4-(3,4-dimethoxyphenyl)-1-(3-phenylpropyl)butyl]-8-(phenylmethyl)-, (1S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 344462-49-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[2-(3-phenylpropyl)-5-(3,4,5-trimethoxyphenyl)pentyl]-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 7 OF 39 CAPLUS COFYRIGHT 2003 ACS on STN (Continued)
CN 3,8-Diazabicyclo[3,2,1]octan-2-one, 3-[4-(3,4-dimethoxyphenyl)-2-[(3,4-dimethoxyphenyl)methyl]butyl]-8-(phenylmethyl)-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 344462-53-9 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-[2-[2-(3,4-dimethoxyphenyl)ethyl]-4-phenylbutyl]-8-(phenylmethyl)-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 344462-55-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-{3-(3-pyridinyloxy)propyl}-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 344462-50-6 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[5-phenyl-2-(3-phenylpropyl)pentyl]-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 344462-51-7 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-{5-(3,4-dimethoxyphenyl)-2-{3-(3,4-dimethoxyphenyl)-2-{3-(3,4-dimethoxyphenyl)-2-(3-(3,4

Absolute stereochemistry.

RN 344462-52-8 CAPLUS

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

LAY ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
CASSION NUMBER: 2001:122158 CAPLUS
COCUMENT NUMBER: 304:131179
TITLE: 3,8-Diazabicyclo[3.2.1]octan-2-one Peptide Mimetics:
Synthesis of a Conformationally Restricted Inhibitor of Farnesyltransferase
Dinsmore, Christopher J., Bergman, Jeffrey M.,
Bogusky, Michael J., Oulberson, J. Christopher,
Hamilton, Kelly A., Graham, Samuel L.
CORPORATE SOURCE: Departments of Medicinal Chemistry Molecular Systems and Cancer Research, Merck Research Laboratories, West Point, PA, 19468, USA
Organic Letters (2001), 3(6), 865-868
COEDN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
Journal
LANGUAGE: English
CASREACT 134:311179
AB A new synthesis of the 3,8-diazabicyclo[3.2.1]octan-2-one framework is described. Transannular enolate alkylation of piperazinone derivs.
provides a flexible route to highly constrained bicyclic peptidomimetic synthons with substitution at the C.alpha. position. The chem. was used to produce a conformationally constrained farnesyltransferase inhibitor, which aided the elucidation of enzyme-bound conformation.

IT 335160-93-5P 355161-00-7P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant) or reagent)
(prepn. of a conformationally restricted farnesyltransferase inhibitor based on 3,8-diazabicyclo[3.2.1]octanone)

CN Benzonitrile, 4-[[5-[4][8,55]-3-[(2,4-dimethoxyphenyl)methyl]-2-oxo-3,8-diazabicyclo[3.2.1]octan-enstruction.

Absolute stereochemistry.

335161-00-7 CAPLUS
Benzonitrile, 4-[[5-[[(1R,55)-3-[[2-chloro-5-[(methylsulfonyl)oxy]phenyl]methyl]-1H-imidazol-1-yl]methyl]-2-fluoro-(9CI) (CA INDEX NAME)

ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ISION NUMBER: 1999:244249 CAPLUS ENT NUMBER: 130:311770

130:311770 Benzocondensed derivatives as rigid analogs of the .mu.-opioid agonist 3(8)-cinnamyl-8(3)-propionyl-3,8-diazabicyclo[3.2.1]octanes: synthesis, modeling, and

Cignarella, G.: Barlocco, D.: Vianello, P.: Villa, S.: Pinna, G. A.: Fadda, P.: Fratta, W.: Toma, L.: Gessi,

s. Istituto di Chimica Farmaceutica e Tossicologica, CORPORATE SOURCE:

Milan, 20131, Italy
Farmaco (1998), 53(10,11), 667-674
CODEN: FRMCE8; ISSN: 0014-827X
Elsevier Science S.A.

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI English

AUTHOR(S):

SOURCE:

A new series of rigid analogs I and II [X = 0, NH, 5, CH:CH, CH2, (CH2) 2, (CH2) 3] of the previously reported analgesic 3-cinnamyl-8-propionyl-3, 8-diazabicyclo[3,2.1] loctane and its reverted isomer 3-propionyl-9-cinnamyl(III) were synthesized, in which the cinnamyl substituent is incorporated in benacocondensed bicyclic systems. Binding assays for the affinity towards .mu. receptors indicated that, while in the reverted series II the .beta.-naphthylmethyl and the benzocycloheptenylmethyl deriv. favorably compared with III, all compds. I displayed a .mu.-affinity lower than that of the parent. Modeling studies suggest that the flexibility of the cinnamyl side chain plays an important role for activity. for activity. 172207-91-9P 223593-83-7P

172207-91-99 223593-83-79
RE: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (prepn. and nm.-opioid agonist activity of cinnamylpropionyldiazabicyclooctanes)
172207-91-9 CAPUS
3.8-Diazabicyclo[3.2.1]octane, 8-(1H-indol-2-ylcarbonyl)-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

L17 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN Absolute stereochemistry.

335160-83-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of a conformationally restricted farnesyltransferase inhibitor based on 3,8-diazabicyclo[3,2:1]octanone)
335160-83-3 CAPLUS
3,8-Diazabicyclo[3,2:1]octane-8-carboxylic acid, 3-[(2,4-dimethoxyphenyl)methyl]-2-oxo-1-(phenylmethyl)-, 1,1-dimethylethyl ester, (15,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

223593-83-7 CAPLUS 3,8-01azabicyclo[3,2,1]octane, 8-(2-benzofuranylcarbonyl)-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

- CH2 - Ph REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

D3/972,177

L3/ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:88086 CAPLUS
D5CALENT NUMBER: 1998:88086 CAPLUS
D5CALENT NUMBER: 1998:88086 CAPLUS
D5CALENT NUMBER: 1998:88086 CAPLUS
D5CALENT NUMBER: 1998:88086 CAPLUS
BERIVATIVES AS Analgesics Structurally Related to Epibatidine: Synthesis, Activity, and Modeling
Barlocco, Danielas Cignarella, Giorgios Tondi,
Donastella, Vianello, Paolas Villa, Scefanias
Bartolini, Alessandros Chelardini, Carlas Galecti,
Nicolettas Anderson, David J. Kuntzveller, Theresa
A., Colombo, Diego, Toma, Lucio
CORPORATE SOURCE: 1stitud di Chinica Farmaceutica e Tossio, Universita
Degli Studi di Milano, Hilan, 20131, Italy
Journal of Medicinal Chemistry (1998), 41(5), 674-681
COEN: JMCMAR, ISSN: 0022-2623
American Chemical Society
Journal Composition of at the 8 position by a chlorinated heteroaryl ring were
synthesized, as potential analogs of the potent natural analgesic
epibatidine. When tested in the hot plate assay, the majority of the
compds. showed significant effects, the most interesting being the
3-(6-chloro-3-pyridazinyl)-3,8-diazabicyclo[3.2.1]octane [1]. At a s.c.
dose of 1 mg/kg, I induced a significant increase in the pain threshold,
its action lasting for about 45 min. I halso demonstrated good protection
at a dose of 5 mg/kg in the mouse abdominal constriction test, while at 20
mg/kg it completely prevented the constrictions in the animals.
Administration of naloxone (1 mg/kg i.p.) did not antagonize its
antinociception while mecamylamine (2 mg/kg i.p.) did, thus suggesting the
involvement of the nicotinic system in its action. Binding studies
confirmed high affinity for the «lajha 4.beta.2 mcAhR subtype (Xi = 4,1
---. 0.21 ml). NACAR functional activity studies on three different cell
lines showed that I was devoid of any activity at the neuromuscular
junction. Finally, due to the analogy in their pharmacol, profile with
that of epibatidine, compds. were compared from a structural and
conformational point of view through theor. calens. and high-fi

ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN SION NUMBER: 1996:567069 CAPLUS ENT NUMBER: 125:221956

MENT NUMBER:

125:221856
Preparation of quinazoline derivatives as adrenergic .alpha.IC receptor antagonists
Andrews, Robert Carl; Brown, Peter Jonathan; Deaton, David Norman; Drewry, David Harold; Foley, Michael Andrew; Garrison, Deanna T.; Marron, Brian Edward; Smalley, Terrence L.; Berman, Judd M.; Noble, Stewart Alvwyn

PATENT ASSIGNEE(S): SOURCE:

INVENTOR (S)

Smalley, Terrence L.; Berman Alywyn Glaxo Inc, USA Brit. UK Pat. Appl., 190 pp. CODEN: BAXXDU Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE GB 2295387 A1 19960529 GB 1994-23635 19941123 PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI GB 1994-23635 MARPAT 125:221856 19941123

Title compds. (1: R = 2122 = R4: R1 = H, halo, alkyl, alkoxy, etc.: R4 = H, (di) (alkyl)amino, phenyl(oxy), etc.: R5, R6 = H, OH, halo, alkyl, alkoxy: Z1 = NH, 2-(piperazine-1,4-diyl)ethylimino, iminopyridine-5,2-diylimino, etc.: Z2 = bond, (un)substituted alkylene) were prepd. as adrenergic alpha.lC receptor antagonists (no data). Thus, 4-chloro-2-phenylquinazoline was aminated by 4-amino-1-benzylpiperidine and the deprotected product N-alkylated by 5-(2-chloroethyl)-2-methoxybenzenesulfonamide (prepn. given) to give title compd. II.
18113-69-59
RL: RCT (Reactant), SNA (Symbotic preparation), PREP (Reactants), PREP AB

L17 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

L17 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN



09/972/177

CAPLUS COPYRIGHT 2003 ACS on STN
1995:994354 CAPLUS
124:55984
3,8-Diazabicyclo(3.2.1)octane derivatives having
analgesic activity
Cignarella, Giorgio
Riace Establishment, Liechtenstein
PCT Int. Appl., 21 pp.
CODEN: PIXXIO2
Patent

INVENTOR

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9523152 A1 19950831 WO 1995-EP476 19950210

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, C2, DE, DK, EE, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MX, NL, NO, NZ, PL, PT, RO, RU, SE, SI, SK, TJ, TT, UA, UG, US, UZ, VN

RW: KE, HW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SS, TD, TG

AU 9518085 A1 19950911 AU 1995-18085 19950210

EP 746560 A1 19961211 EP 1995-909700 19950210

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, UU, MC, NL, PT, SE US 5672601 A 19970930 US 1996-9696948 19960822

PRIORITY APPLN. INFO: CASREACT 124:55984; MARPAT 124:55984

OTHER SOURCE(S):

Title compds. I and their pharmaceutically acceptable salts are claimed and/or prepd. [wherein R. noteq. Rl; R, Rl = straight or branched C2-8 acyl., CH2AB; A = bond between 2 C atoms, CH:CH, or CH2CO; B = C6-10 aryl, (un)substituted with .gtoreq. 1 of COMHR, carbowy, cyano, NO2, or NHCOR; or (un)substituted arom. heterocyclic or alleyplic group with 5 or 6 members in the ring, optionally benzocondensed, contg. .gtoreq. 1 of N, O, or S; when R or Rl = propionyl, the other .noteq. cinnamyl or p-nitrocinnamyl; when R = propionyl, Rl .noteq. o- or m-nitrocinnamyl]. I have central analgesic activity comparable to morphine, and bind selectively to opioid .mu. receptors with similar affinity. However, I are substantially free of withdrawal phenomena, as detd. by the jumping test in mice, where activity was 3-20 times lower than morphine after 21 analgesically equipotent doses in 7 days (no addnl. data). For example,

OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ER: 1995:898142 CAPLUS R: 124:117785 SION NUMBER: ENT NUMBER:

124:117785
Concise synthesis of new homoaza sugars. Fully substituted, functionally diverse pyrrolidines Campanini, Laurence; Dureult, Annie; Depezay, Jean-Claude
Lab. Chim. Biochim. Pharmacologiques Toxicologiques, Univ. Rene Descartes, Paris, 75270, Fr.
Tetrahedron Letters (1995), 36(44), 8015-18
CODEN: TELEAY; ISSN: 0040-4039 AUTHOR (S): CORPORATE SOURCE:

Elsevier

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI English



Five-membered deoxyaza sugars, e.g. I, of D-gluco configuration, bearing an aminomethyl, a bromomethyl or a thiomethyl group at the pseudo anomeric position, were prepd. by nucleophilic opening of C2 sym. bis-azirdines followed by chemoselective transformations of the nucleophile. The 1-bromo-2,5-imino-D-glucitol could be converted into attractive bicyclic compds., e.g. II.
172795-11-89

RE: SPN (Synthetic preparation); PREP (Preparation) (synthesis of pyrrolidine homoaza sugars via nucleophilic ring opening and intramol. cyclocondensation of bis-aziridines) 172795-11-8 CAPLUS

3,8-Diazabicyclo[3.2.1]octane, 6,7-bis(phenylmethoxy)-3,8-bis(phenylmethyl)-, [lR-(6-endo,7-exo)]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 12 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) N-alkylation of N8-acetyl-3,8-diazabicyclo[3.2.1]octane with cinnamyl chloride and K2CO3 in refluxing Me2CO gave I [R = Acr R] = CH2CH:CHPh]. 172207-91-99

172207-91-99
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of diazabicyclooctane derivs. as analgesics)
172207-91-9 CAPLUS
3,8-Diazabicyclo[3,2.1]octane, 8-(1H-indol-2-ylcarbonyl)-3-(phenylmethyl)-(SCI) (CA INDEX INME)

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

ANSWER 14 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

ISSION NUMBER: 1935:502804 CAPLUS

LE: 123:198662
Synthesis of 5, 7, 8, 9, 10, 11-hexahydro-7-oxo-8, 11-iminoazepino[1, 2-b]isoquinolines

FORATE SOURCE: Chem. Dep., Univ. Manchester, Manchester, M13 9PL, UK

Heterocycles (1995), 40(2), 983-91

LISHER: Japan Institute of Heterocyclic Chemistry

JOURN HICKAN, ISSN: 0385-5414

JAPAN ISSN: 0385-5414

JAPAN ISSN: 0385-541

LISHER: Japan Institute of Heterocyclic Chemistry

JOURNENT TYPE: JOURNAL ISSN: 0385-541

LISHER: Japan Institute of Heterocyclic Chemistry

JOURNAL ISSN: 0385-541

LISHER: Japan Institute of Heterocyclic Chemistry

JOURNAL ISSN: 0385-541

LISHER: Japan Institute of Heterocyclic Chemistry

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LISHER: Japan Institute of Heterocyclic Chemistry

JOURNAL ISSN: 0385-541

LISHER: Japan Institute of Heterocyclic Chemistry

JOURNAL ISSN: 0385-541

LISHER: Japan Institu

167874-03-59
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of hexahydroiminoazepinoisoquinolines)
167874-03-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 3-[(2-bromophenyl)methyl]-4-methylene-2-oxo-8-(phenylmethyl)-, methyl ester, exo- (SCI) (CA INDEX NAME)

Relative stereochemistry.

L17 NASWER 15 OF 39
ACGESS ON NUMBER:
1995:332276 CAPLUS
DCCUMENT NUMBER:
123:198733
1,3-Dipolar cycloadditions to oxidopyraziniums
A. Beddeoes, Roy L: Scopes, David I. C.; Joule, John
A. CORPORATE SOURCE:
SOURCE:
Heterocycles (1995), 40(1), 331-47
CODEN: HTCYAN; ISSN: 0385-5414
Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE:
JOURNAL ANGUAGE:
English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

The cycloaddn. of dipolarophiles to oxidopyraziniums I (R1 = Me, R2 = Me, benzyl, R1 = 3-methoxybenzyl, R2 = Me) are described. Bicyclic products such as II are obtained.
167418-00-00

RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of)
167418-00-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(phenylsulfonyl)-, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

167418-05-5P 167418-06-6P 167418-07-7P 167418-15-7P 167418-19-1P 167418-22-6P RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of) 167418-05-5 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(4-

L17 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

167418-19-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methoxy-4-methyl-8-(phenylmethyl)-6-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

167418-22-6 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-3-carboxylic acid, 4-methylene-2-oxo-8-(phenylmethyl)-6-(phenylmethyl)-, 1,1-dimethylethyl ester, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L17 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN pyridinyl)-, endo- (9C1) (CA INDEX NAME)

Relative stereochemistry.

167418-06-6 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(2-pyridinyl)-, endo- (9CI) (CA INDEX NAME)

167418-07-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-6-phenyl-8-(phenylmethyl)-, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

167418-15-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methyl-6-phenyl-8-(phenylmethyl)-, (endo,endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

LIT ANSWER 16 OF 39

ACPLUS COPYRIGHT 2003 ACS on STN
1994:77490 CAPLUS
120:77490 TAPLUS
130:77490 TAPLUS
13

CODEN: JACSAT; ISSN Journal English CASREACT 120:77490

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S):

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Details of the asym. synthesis and complete structure elucidation of (-)-quinocarcin (I), an antitumor antibiotic that inhibits DNA (and in some systems RNA) synthesis, are reported. Key steps in the synthesis include the use of an auxiliary-controlled 1,3-dipolar cycloaddn. reaction (II + III .fwdarw. IV) as well as an unprecedented intramol. inide olefination (V .fwdarw. VI) to assemble the 3,8-diazabicyclo[3.2.1] octane (CD ring) and isoquinoline (B ring) subunits of I in a stereo- and regiocontrolled manner. A comparison of the optical rotations of synthetic and natural quinocarcin confirms that the abs. configuration of this antibiotic is as depicted. Conclusive evidence for the (2aR) stereochem. in I is provided by a NOESY expt. on quinocarcin citrate.

139527-59-6P

139527-59-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and bromination of)
39527-59-6 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-1-[[3-[2-(methoxymethoxy)-1-(2-methoxy/-6-methyl-phenyl)ethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3,2,1]oct-6-yl]carbonyl]-8,8-dimethyl-,2,2-dioxide,
[3aR-[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 139527-61-0P

L17 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and intramol. regioselective cyclization of)
RN 139527-61-0 CAPLUS

139527-61-0 CAPLUS
Phosphonium, [[3-mathoxy-2-[2-(methoxymethoxy)-1-[8-methyl-2,4-dioxo-6[(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol1(4H)-yl|carbonyl]-3,8-diazabicyclo[3.2.]]oct-3y[]ethyl|phenyl|methyl|triphenyl-, bromide, [3aR[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX
NAME)

139527-58-59
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
[prepn. and methoxymethylation of)
139527-59-5 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-1-[[3-[2-hydroxy-1-(2-methoxy-6-methylphenyl) ethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]-8,8-dimethyl-, 2,2-dioxide,
[3aR-[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

ACCESSION NUMBER: OCCUMENT NUMBER: TITLE:

ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

SSION NUMBER: 1993:551940 CAPLUS

119:151940
E: Synthesis and opicid receptor affinity of bivalent ligands derived from 3,8-diazabicyclo(3,2.1)cotanes

OR(5): Barlocco, Daniela: Fadda, Paola: Pratta, Walter

ORATE SOURCE: Ist. Chim. Farm. Toss., Univ. Milano, Milan, 20131, Italy

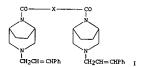
CE: Farmaco (1993), 48(3), 387-96

CODEN: FRMCE8; ISSN: 0014-827X

MENT TYPE: Journal

DOCUMENT TYPE: LANGUAGE: GI

AUTHOR(S): CORPORATE SOURCE:



A new series of bivalent ligands [I, X = (CH2)2, (CH2)3, (CH2)4 or trans CH2-CH=CH-CH2], derived from the previously reported analgesic 3-cinnamyl-8-propionyl-3,8-diazabicyclo(3.2.1)octaine [II], has been synthesized and tested in vitro for their affinity towards opioid receptors and in vivo for their analgesic potency. None of the new compds. showed either appreciable affinity for opioid receptors or analgesic activity comparable to that of the model II. 149771-39-1 P49771-40-49
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preph. and debenzylation of) 149771-39-1 CAPLUS 3,8-Diazabicyclo[3,2.1]octane, 8,8'-(1,4-dioxo-1,4-butanediyl)bis[3-(phenylmethyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

ΙT

(Continued)

139527-60-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with triphenylphosphine)
139527-60-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[(3-[1-[2-(bromomethyl)-6-methoxypehonyl)-2-(methoxypehonyl)-2+(methoxypehonyl)-2

Absolute stereochemistry. Rotation (+).

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

149771-40-4 CAPLUS

3,8-Diazabicyclo[3.2.1]octane, 8,8'-(1,5-dioxo-1,5-pentanediyl)bis(3-(phenylmethyl)- (9CI) (CA INDEX NAME)



149750-00-5P 150146-11-5P

149780-00-59 150146-11-59
REL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and opioid receptor affinity of, analgesic activity in relation to)
149780-00-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8,8'-(1,4-dioxo-1,4-butanediyl)bis[3-(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

●2 HC1

150146-11-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8,8'-(1,5-dioxo-1,5-pentanediyl)bis[3-(phenylmethyl)-, bis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CRN 149771-40-4 CMF C31 H40 N4 O2

CM 2

ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN 55ION NUMBER: 1992:173839 CAPLUS 116:173839

116:173839
Asymmetric synthesis of (-)-quinocarcin
Garner, Philip; Ho, Wen Bin; Shin, Hunwoo
Dep. Chem., Case West. Reserve Univ., Cleveland, OH,
44106-7078, USA
Journal of the American Chemical Society (1992),
114(7), 2767-8
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: LANGUAGE: GI

Journal English

MeOCH₂O CH2PPh3Br III

The first asym. synthesis of (-)-quinocarcin (I) an antitumor antibiotic isolated from Streptomyces melanovinaceus that inhibits DNA (and in some systems RNA) synthesis, is reported. Key steps in the synthesis include an auxiliary-controlled 1,3-dipolar cycloaddn. reaction between imide II and acrylamide III and an unprecedented intramol. olefination of the imide IV to construct the 3,8-diazabicyclo[3,2.1]loctane (CD ring) and isoquinoline (B-ring) subunits of I in a stereo- and regiocontrolled manner. A comparison of the optical rotations of synthetic and natural I confirms that the abs. configuration of this substance is as depicted. 139527-95-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant or reagent)
(prepn. and bromination of)
139527-95-6 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-1-[[3-(2-(methoxymethoxy)-1-(2-methoxy-6-methylphenyl)tehyl)-8-methyl-2,4-dioxo-3,8-diazabicyclo[3,2.1]oct-6-yl]carbonyl]-8,8-dimethyl-, 2,2-dioxide, [3aR-[1]15*,3(R*),5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX CP)

ΙV

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN CRN 104-15-4 CMF C7 H8 03 S

L17 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN NAME)

Absolute stereochemistry. Rotation (-).

139527-61-0P

ΙT

139527-61-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (prepn. and cyclization of)
139527-61-0 CAPUS
Phosphonium, [[3-methoxy-2-[2-(methoxymethoxy)-1-[8-methyl-2, 4-dioxo-6-[(tetrahydro-8, 8-dimethyl-2, 2-dioxido-3H-3a, 6-methano-2, 1-benzisothiazol-1(4H)-yl] carbonyl]-3, 8-diazabicyplo[3, 2.1] loct-3-yl]ethyl]phenyl]methyl]triphenyl-, bromide, [3aR-[1[15*, 3(R*), 5R*, 6R*], 3a.alpha., 6.alpha., 7a.beta.]]- (9CI) (CA INDEX NAME)

139527-58-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

L17 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
(prepn. and etherification of)
RN 139527-58-5 CAPLUS
CN 3H-73,6-Methano-2,1-benzisothiazole, hexahydro-1-[[3-[2-hydroxy-1-(2-methoxy-6-methylphenyl])ethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3,2.1]oct-6-yl]carbonyl]-8,8-dimethyl-,2,2-dioxide,
[3aR-[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAMF)

Absolute stereochemistry. Rotation (+).

139527-60-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with triphenylphosphine)
139527-60-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-{(3-[1-[2-(bromomethyl)-6-methoxyphenyl]-2-(methoxyphenyl)-2+dioxo-3,8-diazabicyclo[3,2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aR-[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (CA INDEX NAME) (Continued)

IT 127381-65-1P 127470-56-8P

127381-65-19 127470-56-8P
RE: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and ethanolysis of)
127381-65-1 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-{[3-[2-[[1,1-dimethylethyl]dimethylsilyl]oxy]-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]ox16-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide,
[3aS-[1[1S*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

127470-56-8 CAPLUS 3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-8,8-dimethyl-1-[[8-methyl-2,4-dioxo-3-[shenylmethyl]-3,8-diazahicyclo[3.2.1]oct-6-yl]carbonyl]-,2,2-dioxide, [3a5-[1(18*,5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

ISWER 19 OF 39 ON NUMBER: IT NUMBER:

CAPLUS COPYRIGHT 2003 ACS on STN

1991:559499 CAPLUS

115:159499 Development of an asymmetric approach to the
3,8-diazabicyclo(3.2.1]octane moiety of quinocarcin
via intramolecular 1,3-dipolar cycloadditions of
photochemically generated azomethine ylides
Garner, Philipi Ho, Wen Bini Grandhee, Sunitha K.;
Youngs, Wiley J.; Kennedy, Vance O.
Dep. Chem., Caze West. Reserve Univ., Cleveland, OH,
44106-7078, USA
Journal of Organic Chemistry (1991), 56(20), 5893-903
CODEN: JOCEAH; ISSN: 0022-3263
Journal
English
CASREACT 115:159499

AUTHOR (S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Exploratory work culminating in an enantioselective approach to the DNA-reactive alkaloid quinocarcin (I) is detailed. The key step involves auxiliary-controlled dipolar cycloaddn. between photochem. generated azomethine ylides such as II (R = H, GH205/Me2CMe3) and Oppolar's chiral acryloyl sultam (III) to assemble the 6-exo-substituted 3,8-diazabicyolo[3.2.1] loctame core of I. The expected re-face selectivity of III was confirmed in one case by x-ray crystallog, anal. of endo-adduct. Removal (and recovery) of the chiral sultam auxiliary can be affected by titanium(IV)-mediated alcoholysis to give ester derivs. of the cycloadducts IV.
127381-61-79
RL: PRP (Properties); SPN (Synthetic preparation); PRRP (Preparation)

127381-61-7P
REL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and crystal structure of)
127381-61-7 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-8,8-dimethyl-1-[[8-methyl-2,4-dioxc-3-(phenylmethyl)-3,8-diszabicyclo[3,2.1]oct-6-yl]carbonyl]-,2.2-dioxide, [3s5-[1(R*,5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- [9CI)

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

127381-62-8P 127381-63-9P 127381-64-0P
127420-42-2P 127470-57-9P 135457-93-1P
135481-27-5P 135557-56-1P 135557-57-2P
135588-14-4P 135555-15-59
RL: SFN (Synthetic preparation); PREP (Preparation)
(prepn. of)
127381-62-8 cAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-[(tetrahydro-6,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4H)-yl)carbonyl]-, methyl ester, (3a5-[1(15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

 $\label{eq:capprox} \begin{tabular}{ll} 127381-63-9 & CAPLUS \\ 3H-3a,6-Methano-2,1-benzisothiazole, & 1-[{3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-,2,2-dioxide, & [3aS-[1[15*,3{R*}),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]}- (9CI) & (CA INDEX NAME) \\ \end{tabular}$

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

127381-64-0 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-y1]carbonyl|hexahydro-8,8-dimethyl-,2,2-dioxide, [3aR-[1[15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]-[9CI) (CA INDEX NAME)

127420-42-2 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4H)-yl)carbonyl]-, methyl ester, [3a5-[1[15^*,3(R^*),5R^*,6R^*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

135481-27-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,1-[[(dicyclohexylamino)sulfomyl]methyl]-7,7-dimethyllicyclo[2.2.1]hept-2-yl ester, [lR-[1.alpha.,5.alpha.,6.alpha.(1S*,2R*,4R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

135557-56-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,5-methyl-2-(1-methylethyl)cyclohexyl ester, [15-[1.alpha.,5.alpha.,6.beta.(1S*,2R*,5S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Page 21

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

127470-57-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[2-[[(1,1-dinethylethyl)dimethylethyl]+8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]cot-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aR-[1[15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

135457-93-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-{1.alpha.,5.alpha.,6.alpha.(1R*,2S*,SR*)]}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

135557-57-2 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,5-methyl-2-[1-methylethyl)cyclohexyl ester, [1R-[1.alpha.,5.alpha.,6.beta.(1R*,2S*,5R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

135558-14-4 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.,5.alpha.,6.alpha.(1S*,2R*,5S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

135558-15-5 CAPLUS
3,8-Diazabicyclo{3.2.1}octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,1-[{(dicyclohexylamino)sulfonyl]methyl]-7,7-dimethylbicyclo[2.2.1]hept-2-yl ester,[IS-{l.alpha.,5.alpha.,6.alpha.(IR*,25*,45*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

(Continued)

L17 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continue RN 135366-01-7 CAPLUS CN 3,8-Diazabicyclo[3,2.1]octane-2,4-dione, 1-[[(1,1-dimethylathyl)dimethylathyl)dimethylathyl)dimethylathylyloxyl-6-ethenyl-5-hydroxy-3,8-bis[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

ANSWER 20 OF 39

CAPLUS COPYRIGHT 2003 ACS on STN
1991:536722 CAPLUS
115:136722 Novel ring contractions via [2,3] Wittig type
rearrangements: synthesis of 2-desoxy-2methylenebicyclomycin
Williams, Robert M.; Sabol, Mark R.; Kim, Hee Doo;
Kwast, Andrzej
Dep. Chem., Colorado State Univ., Fort Collins, CO,
80523, USA
Journal of the American Chemical Society (1991),
113(17), 6621-33
CODEN: JACSAT; ISSN: 0002-7863
Journal
English
CASREACT 115:136722 AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Generation of bridgehead carbanions from bicyclo[5.2.2]- and bicyclo[7.2.2]-allyl ether-bridged piperazinediones results in novel ting contractions via unusual [2,3] Wittig and [3,3] Claisen rearrangements. The [2,3] Wittig rearrangement was applied to the oxadiazabicyclotridecanedione I (R = 4-MeOC6H4CH2) in the construction of 2-deoxy-2-methylenebicyclomycin (II).
135365-99-09 135366-01-7P
RI: SPN (Synthetic preparation), PREP (Preparation) (prepn. of)
[135365-99-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 6-ethenyl-5-bydroxy-3,8-bis(4-methoxyphenyl)methyl]-1-methyl- (SCI) (CA INDEX NAME)

DIT ANSWER 21 OF 39
AGCESSION NUMBER:
JOCUMENT NUMBER:
1171LE:
113:24309
Stereoselective 1,3-dipolar cycloadditions of photochemically generated azomethine ylides to Oppolacer's chiral acryloyl sultam. An asymmetric approach to quinocarcin
Garner, Philip: Ho, Wen Bin
Dep. Chem., Case West. Reserve Univ., Cleveland, OH, 44106-2599, USA
JOURNAIL OF COMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
English
CAPLUS COPYRIGHT 2003 ACS on STN
1990:424309
CAPLUS
OCAPLUS
113:24309
Stereoselective 1,3-dipolar cycloadditions of photochemically generated azomethine ylides to Oppolacer's chiral acryloyl sultam. An asymmetric approach to quinocarcin
Garner, Philip: Ho, Wen Bin
Dep. Chem., Case West. Reserve Univ., Cleveland, OH, 44106-2599, USA
JOURNAIL SSN: 0022-3263
JOURNAIL SSN: 0022-3263
JOURNAIL SSN: 0022-3263
JOURNAIL SSN: 0022-3263

DOCUMENT TYPE: LANGUAGE: GI

Photochem. generated azomethine ylides I [R = PhCH2, PhCH(CO2Me), PhCH(CH2OS:Me2CMe3)] underwent highly selective (ds >25:1) 1,3-dipolar cycloaddns to the chiral acryloyl sultam (-)-II giving cycloadducts III corresponding to the substituted 3,8-dizablicyclo[3.2.1] octane moistly of quinocarcin with complete stereocontrol. The analogous reaction of with (+)-II provided the diastereomeric adducts, confirming that the stereochem. outcome is under control of the chiral auxiliary. The sultam auxiliary was readily removed [1238-65-18] by fit[17] -promoted alcoholysis of the cycloadducts. 1278-0-56-89 127470-57-99
RL: RCT (Reactant). SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (Synthetic preparation): Qrepn. and alcoholysis of) 127381-62-8 CAPLUS 3,8-Diazabicyclo[3.2:1] octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-((tetrabydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4M)-yl)carbonyl-. methyl ester, [3as-[115*,3[s*),58*,68*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

127381-65-1 CAPLUS
3H-3a,6-Nethano-2,1-benzisothiazole, 1-[[3-{2-{[[1,1-dimethylethyl]dimethylsityl]oxy]-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.]joct-6-yl]carbonyl]hexahydro-8,6-dimethyl-, 2,2-dioxide,[3aS-{[[1S*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

127420-42-2 CAPLUS
3,8-Diazabicyclo[3,2,1]octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.phenyl-6-[(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4H)-yl)carbonyl-, methyl ester, [3as-[1[18*,3(R*),5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

ΙT

127381-61-7P 127381-63-9P 127381-64-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
127381-61-7 CAPLUS
3H-3a,-6-Methano-2,1-benzisothiazole, hexahydro-8,8-dimethyl-1-[[8-methyl-2,4-dioxo-3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]-2,2-dioxide, [3sS-[1(IR*,SR*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI)
(CA INDEX NAME)

 $\label{eq:capture} $$1-63-9$ $$ CAPLUS $$ 3H-3a,6-Methano-2,1-benzisothiazole, $1-[[3-\{2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-,2,2-dioxide, [3aS-[1[1S*,3[R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) $$ (CA INDEX NAME)$$$

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

 $\label{lem:condition} \begin{tabular}{ll} 127470-56-8 & CAPLUS \\ 3H-3a, 6-Hethano-2, 1-benzisothiazole, hexahydro-8, 8-dimethyl-1-[\{8-methyl-2, 4-dioxo-3-\{phenylmethyl\}-7, 8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]-, 2, 2-dioxide, [3a5-[1(1S*,5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME) \\ \end{tabular}$

127470-57-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[2-[[(1,1-dimethylethyl)dimethylsily]]oxy]-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aR-[1[15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

 $\label{eq:capprox} \begin{tabular}{ll} 127381-64-0 & CAPLUS \\ 3H-3a,6-Methano-2,1-benzisothiazole, $1-[[3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-, $2,2-dioxide, [3aR-[1[15^*,3[5^*),5R^*,6R^*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) & (CA INDEX NAME) \\ \end{tabular}$

ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
SSION NUMBER:
INTO NUMBER:
INTO NUMBER:
INTO NOTE:

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.			KIND DAT		DATE	E .		APPLICATION NO.			DATE				
										WO 1987-US2556					
	w:	AU,	DK,	FI,	ΗU,	JP,	KR,	NO,	RO	, ι	JS				
	RW:	ΑT,	BE,	CH,	DE,	FR,	GB,	IT,	LU	, N	IL,	SE			
ZA	8707	471		A		1988	0525			ZA	198	7-747	71	198	71005
DD	2663	54		A!	5	1989	0329			DD	198	7-307	7706	198	71006
DD	2805	30		A!	5	1990	0711			DD	198	7-321	7989	198	71006
										ΑU	198	7-815	81	198	71008
	6114														
EP	2885	19		A.	1	1988	1102			ΕP	198	7-907	178	198	71008
	R:														
HU	5250	0		A:	2	1990	0728			ΗU	198	6-56		1981	1008
HU	2037	53		В		1991	0930						55 17		
ÐК	8803	555		A		1988	0823			DK	198	8-355	55	1988	0628
NO	8803	077		A		1988	0822			NO	198	8-307	17	1981	0708
FI	8803	894		A		1988	0823			FΙ	198	8-389	94	1988	0823
													00		
													326		
RITY	APP:	LN.	INFO	.:				1	JS	198	6-9	16752	2	1986	51008
									CS	198	7-7	295		198	1008
								1	VO.	198	7-U	S255€	5	1981	71008
ER SC	URCE	(S):			MAF	PAT	110:	5764	5						

L17 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) L17 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

The title compds. I [X = F, Cl, Br, CF3, CCl3; Z = Ql, Q2, etc.; A, B, C, D, = H, (substituted) lower alkyl, NH2, OH, F, Cl, etc.; n = 0-3; Rl = CM-3, CM-2CH2Me, CPhMe2, etc.; R2 = H, Cl-4 alkyl, alkali and alk. earth metal ions; R3 = H, (substituted) Cl-6 alkyl, C3-6 cycloalkyl, etc.; Y = CH, CF, CCl, CBr, N), useful as antibacterials, were prepd. e.g., using amines II, III, IV, etc. Reaction of Et l-(l,l-dimethylethyl)-1,4-dihydro-6,7.8-trifluoro-4-oxo-3-quinolinecarboxylate with piperazine in MeCN. Collowed by sapon. and vorkup, gave 7-piperazinyl-1-(l,l-dimethylethyl)-1,4-dihydro-6,8-difluoro-4-oxo-3-quinolinecarboxylic acid (V). V in vitro exhibited a MIC of 4 mu.g/ml. against Pseudomonas aeruginose. The corresponding MIC of norfloxacin was 0.5 .mu.g/ml. 118329-60-5
RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, in prepn. of naphthyridine and quinolone antibacterials) 118329-60-5 CAPLUS
1.8-Naphthyridine-3-carboxylic acid, 1-(1,l-dimethylethyl)-6-fluoro-1,4-dihydro-4-oxo-7-(3-phenylmethyl)-3,8-diazabicyclo[3,2:1]oct-8-yl]-, ethyl ester (SCI) (CA INDEX NAME)

ANSWER 23 OF 39
AGRESSION NUMBER:
DOCUMENT NUMBER:
1985:488088 CAPLUS
103:88088
Synthesis and pharmacological activity of
3-aminopropiophenones and 3-(aminomethyl)camphors
Occelli, E. Fontanella, L. Diena, A., Schiatti, P.
Lab. Ric., Gruppo Lepetit S.p.A., Milan, Italy
Farmaco, Edizione Scientifica (1985), 40(2), 86-101
CODEN: FRFSAX; ISSN: 0430-0920
Journal

DOCUMENT TYPE: LANGUAGE: GI

Z:CPhCH2CH2NR2.HCl [I, R = alkyl, (substituted) N-contg. heterocyclyl; Z = 0, (acyl) hydroxyimino] and the camphor derivs. II (R same as above) were prepd. and their CNS, analgesic, and antiinflammatory activities evaluated.
97669-75-5P

97669-73-5P
RL: SPN (Synthetic preparation), PREF (Preparation)
(prepn. and CNS activity of)
97669-75-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-[[[(4-methoxyphenyl)amino]carbonyl]oxy]-8-(2-nitrobenzoyl)-.alpha.-phenyl(CA INDEX NAME)

97670-11-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and pharmacol. activities of)
97670-11-6 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-[[[4-methoxyphenyl]amino[carbonyl]oxyl-8-(2-mitrobenzoyl)-.alpha.-phenyl-monohydrochloride (9CI) (CA INDEX NAME)

L17 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

• HCl

ΙT

97669-87-9P 97669-99-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
97669-87-9 CAPLUS
3,8-Diazabicyclo[3.2.1]cottane, 8-(2-nitrobenzoy1)-3-(3-oxo-3-phenylpropy1)-,
monohydrochloride (9CI) (CA INDEX NAME)

• HC1

97669-99-3 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-hydroxy-8-(2-nitrobenzoy1)-.alpha.-phenyl-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CRN 97669-98-2 CMF C22 H24 N4 O4

NSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ION NUMBER: 1984:423500 CAPLUS NUMBER: 101:23500 MEN NUMBER: 101:23500 Diazabicyclooctanes with anxiolytic and sedative activity Pedrazzoli, Andrea: Crisafulli, Emilio INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: Pedrazzoli, Andrea; Sanofi, Fr. Fr. Demande, 14 pp. CODEN: FRXXBL Patent French DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

FR 2531709 FR 2531709 FR 2531709 PRIORITY APPLM. INFO.: OTHER SOURCE(S): GI PATENT NO. KIND DATE APPLICATION NO. DATE A1 19840217 B1 19850111 FR 1982-14127 19820813 FR 1982-14127 CASREACT 101:23500 19820813

NR1

3,8-Diazabicyclo[3.2.1]octanes I (one of R and R1 is 2-pyrimidinyl and the other is H, alkyl, Ph, tolyl, PhCH2, 3,4-(CH2O2)C6H3CH2, PhCH:CHCH2, alkanoyl, PhCO, 3,4-(CH2O2)C6H3CCO, PhCH:CHCO), which were prepd., are useful as anxiolytics and sedatives (no data). I [R = 3,4-(CH2O2)C6H3CO, R1 = H] was treated with 2-chloropyrimidine and K2CO3 in DMF to give I [R = 3,4-(CH2O2)C6H3CO, R1 = 2-pyrimidinyl].
90478-34-58 (Reactant); SPN (Synthetic preparation); FREP (Preparation); RACT (Reactant or reagent) (prepn. and hydride redn. of)
90478-34-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3-(2-methylphenyl)-8-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME) ΑB

ΙT

90478-31-2P 90478-35-6P RL: RCT (Reactant) SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Page 25

L17 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
(prepn. and hydrogenolysis of)
RN 90478-31-2 CAPLUS
CN 3,8-Diazabicyclo[3,2.1]octane, 8-(1,3-benzodioxol-5-ylcarbonyl)-3(phenylmethyl)- (9C1) (CA INDEX NAME)

90478-35-6 CAPLUS 3.8-Diazabicyclo(3.2.1]octane, 3-(2-methylphenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

90478-39-0 90478-40-3 90478-41-4
90478-45-8 90478-51-6 90478-52-7
90478-53-8
RL: RCT (Reactant), RACT (Reactant or reagent)
(N-alkylation by, of diazabicyclooctane deriv.)
90478-39-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-(1,3-benzodioxol-5-ylcarbonyl)-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

90478-40-3 CAPLUS
3,8-Diazabicyclo{3.2.1}octane, 8-(1,3-benzodioxol-5-ylmethyl)-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

90478-41 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-(1,3-benzodioxol-5-ylmethyl)-3-(2-pyrimidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

90478-45-8 CAPLUS 3,8-Diazabicyclo[3,2,1]octane, 3-(phenylmethyl)-8-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

ANSWER 25 OF 39
CAPLUS COPYRIGHT 2003 ACS on STN
1979:72149 CAPLUS
DOCMENT NUMBER:
TITLE:

1979:72149 CAPLUS
90:72149
Tricyclic homologs of piperazine. III. Synthesis of
4-substituted hexahydro-1H-2,6-methanopyrolo[1,2-

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

ΙT

Methanopyrrolopyrazine I (R = H, Rl = R2 = Me, X = Cl) was prepd. by treating II (R3 = H, R4 = CH2Ph) with BrCHMeCO2Et, debenzylating II (R3 = CHMeCO2Et, R4 = CH2Ph), methylating II (R3 = CHMeCO2Et, R4 = H), reducing II (R3 = CHMeCO2Et, R4 = Me), chlorinating the resulting alc., and cyclizing II (R3 = CHMeCH2Cl, R4 = Me) with base. I (R = R1 = Me, R2 = CH2Ph, X = Cl) were similarly prepd. The latter 2 compds. qave 23 and 64 decrease resp. in gastrocnemic muscle contraction in rabbits at 2 mg/kg i.v. AB

69099-93-09
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and shlorination of)
69099-93-0 CAYUUS
3,8-DiazabicyAlo[3.2.1]octane-8-ethanol, .beta.-phenyl-3-(phenylmethyl)-, dihydrochlogdde (9CI) (CA INDEX NAME)

HO-CH2

●2 HC1

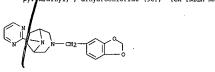
69099-94-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and cyclization of) 69099-94-1 CAPLUS 3,8-Diszabicyclo[3.2.1]cottane, 8-(2-chloro-1-phenylethyl)-3-(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

(Continued) L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN CH2-Ph

90478-51-6 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-(1,3-benzodioxol-5-ylcarbonyl)-8-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

90478-52-7 CAPLUS 3,8-01azabicycio[3,2.1]octane, 3-(1,3-benzodioxol-5-ylmethyl)-8-(2-pyrimidinyl)- (9C1) (CA INDEX NAME)

78-53-8 CAPLUS -Diazabicyclo[3.2.1]octane, 3-(1,3-benzodioxol-5-ylmethyl)-8-(2-midinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HC1

L17 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) C1CH2

●2 HC1

69099-91-8P RE: RCT (Reactant); SPN (Synthetic preparation); FREP (Preparation); RACT (Reactant or reagent) (prepn. and redn. of) 69099-91-8 CAPLUS

33,8-Diazabicyclo[3.2.1]octane-8-acetic acid, .alpha.-phenyl-3-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

CH2-Ph

ΙT

69099-92-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
69099-92-9 CAPIUS
3,8-Diazabicyclo[3,2.1]octane-8-ethanol, .beta.-phenyl-3-(phenylmethyl)(9CI) (CA NDEX NAME)

CH2-Ph

IN ANSWER 28 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACONSION NUMBER: 1972:539972 CAPLUS
POURNT NUMBER: 77:139972 CAPLUS
TITLE:

AUTHOR(S): 73,8-diazabicyclo[3,2.1]octane, 3,8-diazabicyclo[3,2.1]octane, 2,4-diones, and 2,6-dimethylpiperazine with potential pharmacological activity

AUTHOR(S): Fontanella, L.: Occelli, E.: Testa, E.: Cignarella, G.
CORPORATE SOURCE: Farmaco, Edizione Scientifica (1972), 27(9), 755-72
CODENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB The diazabicycloctanes I (R = NO, H, Me, CH2, Ph, CH2CH:-CHPh, COEt, NH2;
R1 = Me, COEt, CO2Et, NO, NH2, NHCOSt, NHCOSH3(SO2NH2)Cl-3,4, the diazabicycloctane-diones II (R = NO, NH2, substituted amino) and some related piperazine derivs. were prepd. for testing for pharmacol. activity. I (R = NHCO2Et, R1 = CH2CH:CHPh) had santiconvulsant, analgesic, and local anesthetic activity and I (R = COEt, R2 = Me, CH2CH:CHPh) also showed some activity. II (R = 3,4-(Me0)2C6H3CH2NH) had shight analgesic activity. The piperazines had considerably lower diuretic activity than Clopanide.

IT 38074-18-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38074-18-9 CAPLUS
CN Benzamide, 3-(aminosulfonyl)-4-chloro-N-[3-(phenylmethyl)-3,8-diazabicyclo(3,2.1)oct-8-yl]- (9CI) (CA INDEX NAME)

 $\begin{array}{c} \stackrel{\circ}{\text{H}_2N-S} = 0 \\ \text{C1} \\ \stackrel{\circ}{\text{O}} \\ \stackrel{\circ}{\text{$

● HC1

DIY ANSWER 29 OF 39 CAPLUS COFYRIGHT 2003 ACS on STN

1972:514359 CAPLUS

77:11459

Synthesis of N,N'-dibenzylpyrrolidine-2,5dicarboximide (3,8-diszabicyclo[3.2.1]Octane-2,4dione)

AUTHOR(S):

CORFORATE SOURCE:

Solution

Bella, E. W.; Kendall, M.
Soch. Phys. Sci., Flinders Univ. South Australia,
Bedford Park, Australia

Australian Journal of Chemistry (1972), 25(8), 1827-8

CODEN: AICHAS; ISSN: 0004-9425

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI For diagram(s), see printed CA Issue.

AB The title compd. (1) Was prepd. by cyclizing the pyrrolidine (II, R = H,
R1 = PhcHZMH] (III), which was obtained by hydrolysis of the ester prepd.
from II (R = Et, Rl = OEt) by the method of S. W. Blackman and R. J.
Baltzly (1961). Thus, III was treated with SO2(2) to give 75% I.HCl.

IT 17740-41-92 37061-44-2P

RI: SRN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 17740-41-9 CAPLUS

CN 3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)-,
monohydrochloride (9CI) (CA INDEX NAME)

Ph-CH2-N CH2-PI

• HCl

RN 37061-44-2 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

LI ANSWER 30 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN AGCESCION NUMBER: 1972:85788 CAPLUS 76:85788

TITLE: Bicyclic homologs of piperazine. XI. 3,8-Diazabicyclo[3.2.1]octane-2,4-diones with potential pharmacological activity

AUTHOR(S): CORFORATE SOURCE: Lab. Ric.. Gruppo Lepetit S.p.A., Milan, Italy

FORMANIA TYPE: Love Scientifica (1972), 27(1), 68-78 CODEN: FRPSAX; ISSN: 0430-0920

DOCUMENT TYPE: Journal Italian

AB The 3-substituted 3,8-diazabicyclo[3.2.1]octane-2,4-diones, I (R = H), are alkylated and acylated and treated with isocyanates to give 3,8-disubstituted compds. I (R = H, Rl = Me) is treated with Bul to give I (R = Bu, Rl = Me). Similarly prepd are appra.30 addnl. I (R = alkyl, acyl, CONH2, CONH2h, Rl = H, He, PhCH2, aryl). II is treated with NH3 to give I (R = Me, Rl = H); and I (R = H, Rl = p-tolyl) is prepd. by the distn. of III.

IT 35101-50-9 35101-51-0 35101-52-1 RL: PROC (Process)

RL: PROC (Process) (prepn. of) 35101-50-9 CAPLUS

3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 8-benzoyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

35101-51-0 CAPLUS
3,8-Diazabicyclo(3.2.1)cotane-2,4-dione, 8-(phenylacetyl)-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

35101-52-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 8-(1-oxo-2-phenyl-2-propenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 31 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCUSENT NUMBER: 1972:3795 CAPLUS
TITLE: Synthesis of 2,5- and 2,6-bis(bromomethyl)-1,4diphenylpiperazines and their conversion into
2,5-diphenyl-2,5-diazabicyclo[2,2,2]octane
Nelson, David A.; Worman, James J.; Keen, Brian
DOCUMENT TYPE: Dept. Univ. Wyoming, Laramie, WY, USA
Journal of Organic Chemistry (1971), 36(22), 3361-5
COEN: JOCEAHJ ISSN: 0022-3263
DOCUMENT TYPE: Dept. Coence of the with PBr3 yielded a mixt. of cis-2,6-bis(bromomethyl)-1,4diphenylpiperazine (1) and cis-2,5-bis(bromomethyl)-1,4diphenylpiperazine (1) and cis-2,5-bis(bromomethyl)-1,4-diphenylpiperazine
(11). The structures of I and II were confirmed by conversion to the
corresponding dimethyl-1,4-diphenylpiperazines (III and IV were synthesized from cis-2,5- and cis-2,6-dimethylpiperazines.
Both I and II on treatment with Mg in THF were converted to
2,5-diphenyl-2,5-diazabicyclo[2,2,2]-octane (V). The interconversion of I
and II is discussed.

II 17140-42-0
RL: PRP (Properties)
(nuclear magnetic resonance spectrum of)
RN PRO 42-00
RN PRP (Properties)
(nuclear magnetic resonance spectrum of)
RN AME)

Ph-CH2 CH2-Ph L17 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

35142-72-4P ΙT

Spiez-Z-2-W (Synthetic preparation), PREP (Preparation) (prepn. of) 35142-72-4 CAPLUS 3,8-Diazabicyclo(3.2.1)octane-2,4-dione, 8-benzoyl-

.8-Diazabicyclo[3.2.1]octane-2,4-dione, 8-benzoyl-3-phenyl- (9CI) (CA

17 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN ACCESSION NUMBER: 1970:78780 CAPLUS DOCUMENT NUMBER: 72:78780

72:18780
Photoinduced 1,3-dipolar cycloaddition reaction of aziridinedicarboximide
Olda, Sadao; Ohki, Elji
Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
Chemical & Pharmaceutical Bulletin (1969), 17(12), 2461-74 TITLE:

AUTHOR(S): CORPORATE SOURCE: SOURCE:

CODEN: CPBTAL; ISSN: 0009-2363

CODEN: CPBTAL; ISSN: 0009-2363
JOURNAL
LANGUAGE: English

For diagram(s), see printed CA Issue.

Cycloaddn. of Me02CC.tplbond.CC02Me to N-(p-methoxyphenyl)-1-benzyl-2,3aziridinedicarboximide was not effected thermally, but under irradn. it
gave 3 il-1-cycloadduct 1. The structural detn. of
the cycloadducts was via their spectral dataand chem. degradations.
Mutual photochem. transformation of the cycloadducts was verified.

IT 25435-24-98

Bi. SWM (Symptatic propagation) NPMP (New York)

25435-24-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
25435-24-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-6,7-dicarboxylic acid, 8-benzyl-6-p-dioxan-2-yl-3-(p-methoxyphenyl)-2,4-dioxo-, dimethyl ester (8CI) (CA INDEX NAME)

D. Answer 33 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ADCESSION NUMBER:

1969:115125 CAPLUS
TO:115125
AUTHOR(S):

AUTHOR(S):

CORPORATE SOURCE:

SURCE:

OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ER: 1968:49651 CAPLUS
R: 68:49651
3,8-Disubstituted-3,8-diazabicyclo[3.2.1]octanes
Kirchner, Frederick K.
E(S): Sterling Drug Inc.
U.S., 8 pp.
CODEN: USXXAM
Parent SSION NUMBER: ENT NUMBER: INVENTOR (S): PATENT ASSIGNEE(S):

DOCUMENT TYPE: English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE 5 19670627 APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

US 3328396 19670627 US 19611109

For diagram(s), see printed CA Issue.
Thus, 0.1 mole diethyl 1-methyl-2,5-pyrolidinedicarboxylate (II) was heated to 150.degree. and 0.1 mole benzylamine added during 15 min. After increasing the temp. to 180.degree., ECbN, began to distil. The temp. was increased to 280.degree. and 0.1 mole benzylamine added during 15 min. After increasing the temp. to 180.degree., ECbN, began to distil. The temp. was increased to 280.degree. during 2 hrs. and 7.2 cc. ECbN was collected to give 3-benzyl-2,4-dioxo-3-methyl-3,8-diazabicyclo[3.2.1]octate, m. 100.0-4.4.degree. (hexane) (procedure A). The picrate m. 175-8.degree. (decompn.) (EtcOR). LinlH4 redn. of the dioxo compd. in Et20 gave I (R - PhCHZ, RI - Me) (111), b9.2 84-94.degree., n2SD 1.5368 (procedure B). Refluxing 2.0 g. III in Et20 with excess MeI 1 hr. gave the methiodide, m. 245.0-8.2.degree. (EtOR) (procedure C). III (10 g.) in 400 cc. EtOH was acidified with concel. HCl and hydrogenated over Pd/C 6 hrs. at 23.degree. and 45 psi. to give I.2 HCl (R - H, RI - Me) (IV), m. 325.degree. (decompn.) (procedure D). By these procedures were prepd.
3-(3,4-dichlorobenzyl)-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]octane, m. 103.6-8.degree. (abs. EtOH), from II and 3,4-dichlorobenzylamine; I. 2HCl (R - 3,4-Cl2CGH3CH2, RI - Me), m. 216.4-20.8.degree. and its ethobromide: 3-(4-dimethylaminobenzyl)-2,4-dioxo-8-methyl-3,8-diazabicyclo[3.2.1]octane (the di-HCl salt m. 236.8.degree. (decompn.) (dry MeON); I (R - p-HcNCGH2R), RI - Me); 3-(4-chorobenzyl)-2,4-dioxo-8-methyl-3,8-diazabicyclo[3.2.1]octane HCl salt m. 205.6-dogree. (abs. EtOH); L. 2HCl (R - PclCCRGHCH2, RI - Me); 3-(4-chorobenzyl)-2,4-dioxo-8-methyl-3-8-diazabicyclo[3.2.1]octane HCl salt, m. 226.degree. (decompn.) and its methosulfate: 3-(3,4-diazabicyclo[3.2.1]octane HCl salt, m. 228.degree. (decompn.) and its methosulfate: 3-(3,4-diazabicyclo[3.2.1]octane HCl salt, m. 228.degree. (decompn.) and its methosulfate: 3-(3,4-diazabicyclo[3.2.1]oct

L17 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

22315-35-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(p-phenylbenzyl)- (8CI) (CA INDEX NAME)

22315-36-2 CAPLUS
3-Aza-8-azoniabicyclo[3.2.1]octane, 3,8-dimethyl-2-oxo-8-(p-phenylbenzyl)-, iodide (8C1) (CA INDEX NAME)

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) give 3-(3-acetoxy-2-phenylpropionyl)-8-methyl-3.8-diazabicyclo[3.2.1]octame hydrochloride (procedure F). To a soln. contp. 0.014 mole of the above salt in 50 cc. abs. MeOM, 4 cc. 4M aq. RCl was added and the soln. kept at room temp. several days. Addn. of a large ant. of abs. EEOG caused the pptn. of a white gum which solidified in abs. EEOH to give 3-(3-hydroxy-2-phenylpropionyl)-8-methyl-3,8-diazabicyclo[3.2.1]octane hydrochloride, m. 195.3-20.3. degree. (abs. EEOH-abs. EEO). This compd. had 15.5% of the activity of atropine sulfate in the mouse after s.c. injection. The LDSO in mice was 160.+-. 12 mg./kp.i.v. A soln. of 0.04 mole IV in 100 cc. dry EEO was added dropwise over 2 hrs. to a well-stirred soln. of 0.04 mole Transulforide in 100 cc. dry EEO to give I.HCl (R = EESO2, R1 - Me), m. 261.2-4.6.degree. (decompn.) (MeOH). IV (0.039 mole free base) was added cautiously with cooling to 15 cc. 100% HCOH and 0.04 mole 37% HCHO. The mixt. was heated at 95.degree. overnight, 9 cc. concl. HCl added, and the mixt. heated 3 hrs. at 95.degree. overnight, 9 cc. concl. HCl added, and the mixt. heated 3 hrs. at 95.degree. to give I.HCl (R = R1 - Me), m. 273.2-74.degree. (decompn.) (EEOH). Using procedure 7, 0.04 mole IV was treated with 0.04 mole VII. The acetoxy group was hydrolyzed with dil. NAOH to give 3-(alpha.-hydroxyphenylacetyl)-8-methyl-3,8-diazabicyclo[3.2.1] pottame hydrochloride, m. 226.4-7,8.degree. Using PED, NaoH (10 give 1.HCl (R = R1 - Me), m. 226.4-7,0.10.0.0 mole of the above salt in 100 cc. abs. MeOH, 1.7 g. dry KZOO3 and 5 cc. MeI were added and the mixt. was refluxed overnight to give I.HCl (R = Bz, R1 - Me), m. 235-6.degree. (decompn.) (procedure G). I (R = Bz, R - Me), m. 235-6.degree. (decompn.) (procedure G). I (R = R2, R - Me), m. 235-6.degree. (decompn.) (procedure G). I (R = Bz, R - Me), m. 235-6.degree. (decompn.) (procedure H). The acquerity of the salter of the solution of the solution of the salter of the salter of the so

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L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
Ethereal HCl was added to the dried Et20 ext. to give I.2EC1 (R
-BZCGTZCH2, R1 = He), m. 197.2-209.6.degree. (decompn.). This compd. had
1.1 times the local anesthetic activity of procaine in guinea pigs. The
i.v. LDSO in mice was 28 .+- 1.6 mg./kg. Using procedure Z, 1.0 mole
3-diethylaminopropylamine was treated with 0.5 mole V in 700 cc. C6H6 to
give 1-(3-diethylaminopropyl)-2,5-dicarbethoxypyrrolidine (IX), b0.5
135-40.degree. n25D 1.4589. Using procedure A, 0.1 mole IX was treated
with 0.1 mole benzylamine to give 3-benzyl-8-(3-diethylaminopropyl)-2,4dioxo-3,8-diazabicyclo[3,2:1]octane as the HCl salt, m.
183.0-194.8.degree. (abs. EtOH). The salt had twice the local anesthetic
activity of procaine in guinea pigs. The i.v. LDSO in mice was 31 mg./kg.
Using procedure B, the free base corresponding to the above salt was
reduced to give 1 (R = PHCH2, R1 = ELXN(CH2)3]. Using procedure A, 6.5 g.
diethylaminopropylamine was treated with 0.05 mole II to give
3-(3-diethylaminopropyl)-8-methyl-2,4-dioxo-3,-diazabicyclo[3,2:1]octane
hydrochloride, m. 209.2-12.2.degree. (abs. EtOH). Using procedure B, the
above salt was reduced to give I (R = ELXN(CH2)3), R1 = Mh. b3.5
126-30.degree. n25D 1.4782; tri-HCl salt m. 169-71.degree.. Using
procedure G, 0.01 mole of the above base was treated with 5 cc. HeI and
0.017 mole KZCO3 in 100 cc. abs. MeOH to give 3-(3-diethylaminopropyl)-8methyl-3,8-diazabicyclo[3,2:1]octane bismethiodide, m. 263.4-6.4.degree.
(decompn.). Using procedure A, 0.1 mole II was treated with 0.1 mole
diethylaminoethylamine to give 3 (2-diethylaminoethyl)-8-methyl-3,4-dioxo-3,8-diazabicyclo[3,2:1]octane bismethiodide, m. 263.4-6.4.degree.
(decompn.). Using procedure B, the free base corresponding to the above
di-HCl salt was reduced to give 1.3HCl (R = ELXNCH2CH2, R I = Me), m.
225.6-33.2.degree. (decompn.). Using procedure A, 0.1 mole II was treated
with 0.1 mole 4-diethylaminobutylamine to give 3-(4-diethylaminobutyl)-8m

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Ph-CH2. • HC1 17740,42-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX CH2-Ph . 17783-47-0 CAPLUS 2,5-Pyrrolidinedicarboximide, N-benzyl-1-methyl-, picrate (8CI) (CA İNDEX NAME) CRN 17783-46-9 CMF C14 H16 N2 O2 CH2-Ph СМ 88-89-1 C6 H3 N3 O7

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

ANSWER 35 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN 510N NUMBER: 1964:425460 CAPLUS 61:25460 NAN REFERENCE NO.: 61:4374a-g lisazabicyclooctane derivatives TOR(S): Lepetit, S.p.A. 12 pp.
EMI TYPE: Patent Unavailable ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: INVENTOR(S): DOCUMENT TYPE: Unavailable PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE BE 633541 19631104 ΒE FR 1365537 GB 988526 PRIORITY APPLN. INFO.:

FR 1365537

6B 988256

ORITY APPLM INFO:

For diagram(s), see printed CA Issue.

Improved routes to certain 3- and 8-substituted derivs. of I are described. Thus, a mint. of 6.7 g. 3-benzyl-3,8-diazabicyclo(3.2.1) octane (11), and 12.8 g. (EtCo)20 was heated 1.5 hrs. at 100.degree., cooled, acidified with HCl, extd. with Et20 (discarded), the aq. layer alkalized at 5.degree., and the sept. oil extd. into Et20. Fractionation of the ext. gave 7.4 g. 3-benzyl-8-propionyl-3,8-diazabicyclo(3.2.1) octane (111), bl 174.degree., bol 4 133-7.degree.

11 year 13 year 13 year 13 year 14 year 15
ANSWER 35 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 0.58 g. oil with properties as above. To methylate VII, a soln. of 0.84 g. in 0.7 cc. HCO2H and 0.79 g. 384 CH2O was refluwed 15 hrs. cooled, treated with 1 cc. HCl, concd. in vacuo, alkalized, extd. with Et2O, and the ext. fractionated to give 0.54 g. 3-propionyl-8-methyl deriv. of I, bl 110-12.degree. VII was benzylated as described for IV to V to give the 3-propionyl-8-benzyl deriv. of I, bl 0.2 155.degree. VI was converted into its 3-Bz isomer [m. 122-3.degree. (Et2O)] by the 3 methods described for IV to VII.

IV to VII. 100105-97-3, Acetophenone, 2-(3-benzyl-3,8-diazabicyclo[3.2.1]oct-8-v1)-

(prepn. of) 100105-97-3 CAPLUS Acetophenone, 2-(3-benzyl-3,8-diazabicyclo[3.2.1]oct-8-yl)- (7CI) (CA INDEX NAME)

ANSWER 36 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) di-HCl salt m. 218-20.degree.; Ph, H, b0.2 114.degree.; benzyl, H, b. 95-7.degree.; di-HCl salt m. 145-8.degree.; dipicrate m. 232-5.degree.; H, H. b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 232-5.degree.; H, H. b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 248-50.degree.

248-50.degree. These compds. are pharmacologically active as diuretic, hypotensive, antihistaminic, tranquillizing, and ganglionic blocking agents.

96000-95-2, 3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-, benzyl ester (prepn. of)

96000-95-2 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-, benzyl ester (6C1, 7C1) (CA INDEX NAME)

ANSWER 36 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SION NUMBER: 1964:23448 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 1964:23448 CAPLUS 60:23448 60:4161g-h,4162a-d 3,8-Diazabicyclo[3.2.1]octanes Cignarella, Giorgio Lepetit S.p.A. 4 pp. Patent TITLE: INVENTOR(S): PATENT ASSIGNEE (S): SOURCE: DOCUMENT TYPE: LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND KIND DATE APPLICATION NO. DATE GB 937184 19630918 GB 19600217

PATENT NO. KIND DATE

APPLICATION NO. DATE

GB 937184

19630918

GB 19600217

For diagram(s), see printed CA Issue.
The title compds. are represented by (I) wherein R is H or an alkyl (C1-8), an aryl, or an arylalkyl group, and X is H or carbobenzyloxy. The process used consists in adding to the internal anhydride of an N-substituted pyrrolidine-2,5-dicarboxylic acid an excess of an amine RNH2 and refluxing the obtained crude monamine with Ac20. Thus, a soln. of 60 g. 2,5-dicarbethoxy-N-benzylpyrrolidine was hydrogenated at 40.degree./20 atm. in abs. ECCH over 108 PdC to give 38 g. 2,5-dicarbethoxypyrrolidine (II), b0.3 95-6.degree. A suspension of 200 g. II in 8 1. H20 was refluxed for 25-30 hrs. to give 110 g. pyrrolidine-2,5-dicarboxylic acid (III), m. 260-1.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. ocoled to 8-10.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. was added with vigorous stirring during 30 min. After 2 hrs. stirring, the soln. yielded 86.5 g. N-carbobenzyloxy-pyrrolidine-2,5-dicarboxylic acid (IV), m. 125-7.degree. A soln. of 79 g. IV in 360 ml. Ac20 was refluxed I hr. to give 58.1 g. IV anhydride (V), m. 166-8.degree. To a soln. of 27.5 g. V in 300 ml. anhyd. C6H6 a soln. of 19 g. N13 in 50 ml. C6H6 was added with cooling. The mint. was refluxed for 30 min., the solvent removed, and the resulting monamide refluxed with Ac20 l hr. at 130-40.degree. under 1 atm. pressure to give 18 g. 8-carbobenzyloxy-3,8-diazabicyclo[3,2.1]octane-2,4-dione (I, X = phCH202C, R = H) (VI), m. 125.degree. Similarly prepd. I (X = phCH202C) analogs were (R and b.p. given): Me, b0.3 170-2.degree.; Bu, b0.3 192-4.degree.. henzyl, Co2CH2Ph, 83-4.degree.; Me, H, 105-7.degree.; H, H, 223-6.degree.. henzyl, Co2CH2Ph, 83-4.degree.; Me, H, 105-7.degree. H, H, 223-6.degree.. henzyl, Co2CH2Ph, 83-4.degree.; Me, H, 105-7.degree.; H, H, 23-6.degree.. A soln. of 27-4 g. VI was added dropwise, With stirring, to an Et20 suspension of 5.7 g. LiAlH4 at 0-5.degree.. The mint. was then brought to room temp. and

/ ANSWER 37 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ISSION NUMBER: 1964:23447 CAPLUS 60:23447 INDAL REFERENCE NO.: 60:4161g-h,4162a-d .E: 3,8-Diazabicyclo[3.2.1]octanes CNT ASSIGNEE(S): Lepetit S.p.A. 4 np. ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: 4 pp. Patent LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Unavailable

PATENT NO. GB 937183 KIND DATE APPLICATION NO. DATE 19630918 GB 19600217 DE 1200316 US 3221015 DE US

DE 1200316

The title compds. are represented by (I) wherein R is H or an alkyl (C1-8), an aryl, or an arylalkyl group, and X is H or carbobenzyloxy. The process used consists in adding to the internal anhydride of an Mn-substituted pyrrolidine-2,5-dicarboxylic acid an excess of an amine RNH2 and refluxing the obtained crude monamine with Ac20. Thus, a soln. of 60 9. 2,5-dicarbethoxy-N-benzylpyrrolidine was hydrogenated at 40.degree./20 atm. in abs. Etch over 101 Pd-C to give 38 g. 2,5-dicarbethoxypyrrolidine (II), b0.3 95-6.degree. A suspension of 200 g. II in 8 l. H20 was refluxed for 25-30 hrs. to give 110 g. pyrrolidine-2,5-dicarboxylic acid (III), m. 260-1.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. was added with vigorous stirring during 30 min. After 2 hrs. stirring, the soln. yielded 86.5 g. N-carbobenzylox-pyrrolidine-2,5-dicarboxylic acid (IV), m. 125-7.degree. A soln. of 79 g. IV in 360 ml. Ac20 was refluxed 1 hr. to give 58.1 g. IV anhydride (V), m. 166-8.degree. To a soln. of 27.5 g. V in 300 ml. anhyd. C6H6 a soln. of 1.9 g. NN3 in 50 ml. C6H6 was added with cooling. The mixt. was refluxed for 30 min., the solvent removed, and the resulting monamide refluxed with Ac20 hr. at 130-40.degree. under 1 atm. pressure to give 18 g. 8-carbobenzyloxy-3,8-diazabicyclo[3.2.1]octane-2,4-dione (I, X = hCH202C, R = H) (VI), m. 125-degree. Similarly prepd. I (X = hCH202C) analogs were (R and b.p. given): Me, b0.3 170-2.degree.; Bu, b0.3 192-4.degree. henzyl, H, 78.degree (b0.2 150-2.degree.) A mixt. of 21.5 g. II and 11.8 g. PhCH204Ph, 83-4.degree. Men. p. given): Ph. C02CH2Ph, 189-3.degree. Nenzyl, H, 78.degree (b0.2 150-2.degree.) A mixt. of 21.5 g. II and 11.8 g. PhCH204Ph, 83-4.degree. Men. p. given): Ph. C02CH2Ph, 189-3.degree. Nenzyl, H, 8. degree. Mid VIII, X = MR. B. H) (D-2.degree. Mid VIII, X = MR. B. H) (D-2.degree. Mid VIII, X = MR. B. H) (D-2.degree. Mid VIII, X = MR. B. H) (D-2.d

ANSWER 37 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) H, b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 248-50.degree. These compds. are pharmacologically active as diuretic, hypotensive, antihistaminic, tranquillizing, and ganglionic blocking

agents.
96000-95-2, 3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid,
3-benzyl-2,4-dioxo-, benzyl ester
(prepn. of)
96000-95-2 CAPIUS
3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-,
benzyl ester (6CI, 7CI) (CA INDEX NAME)

(prepn. of) 17740-41-9 CAPLUS

3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

17740-42-0 CAPLUS 3,8-pDiazabicyclo[3.2.1]octane, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

35101-50-9 CAPLUS 8-Diazabicyclo(3.2.1)octane-2,4-dione, 8-benzoyl-3-(phenylmethyl)- (9CI)
(CA INDEX NAME)

LIJ ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN
ACCESSION NUMBER: 1961:144227 CAPLUS
DOCUMENT NUMBER: 55:144227
Synthesis of 3,8-diazabicyclo(3.2.1]octane and some of its N-substituted derivatives
AUTHOR(S): Blackman, Samuel W.; Baltzly, Richard
CORPORATE SOURCE: Blackman, Samuel W.; Baltzly, Richard
SOURCE: Journal of Organic Chemistry (1961), 26, 2750-5
CORDEN JOURNAL ISSN: 0022-3263
DOCUMENT TYPE: Journal Unavailable
AB The prepn. of 3,8-diazabicyclo(3.2.1]octane (I) and some of its simple
N-substituted deriva. was described. Adipoyl chloride brominated by a
standard method and added to Neofl gave (overnight) 300 di-He
.alpha., alpha.'-dibromoslipate (II), m. 75-6.degree. (MeON].
Copy of the monobrome ester was isolated as a forerun, bl. (155-70 degree.)
The main fraction of II bl6 170-81.degree. Recrystn. raised the yield of cryst. II to 304. II (III g.) in 250 oc. CSHS and 250 oc. NeoNo2 refluxed 16 hrs. with 124 g. PNNH2 and 1 g. XI gave 27 g. crystals (two types of crystals were present, long orange-yellow needles and clusters of colorless crystals). Mechanical sepn. gave 13 g. trans-dimethyl
N-phenylpyrrolidine_2,5-dicarboxylate (III), m. 88.5.degree.
(Et20-bexane) purification by chromatography on Al203 gave 44 g. cis-ester (IV) and 13 g. III. In another run, distn. was omitted; the residue dissolved in C6H6-hexane gave 67 g. mixt.; chromatography gave 14 g. III and 44 g. IV. IV (88 g.) in S00 oc. (CHS0H)2 was heated with 40 g. PhCH2NH2 and NaOMe (72 oc. MeON Collected in the first 2 hrs.), heating increased, the mixt. refluxed 16 hrs., the fractionating column removed, and volatile material removed in vacuo. Distn. of the residue gave 38.7 g. 3-benzyl-8-phenyl-3,8-diazabicyclo[3.2.1] octane-2,4-dione (V), m. 166.5.degree. (Me2CO). 8-Phenyl-3,8-diazabicyclo[3.2.1] octane-(VI), m. 131-2.degree.
Meso-11 (222 g.) in 800 oc. CGH6 stirred 24 hrs. at room temp. with 25 oc. PhCH2NH2, the mixt. refluxed 8 hrs., cooled, and treated with Et2O, other phone of the phone of the phone of the phone of the phone

L17 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

102080-93-3 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3-benzoyl-8-phenyl- (6CI) (CA INDEX NAME)

102163-86-0 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3-benzyl-8-phenyl- (6CI) (CA INDEX NAME)

103046-68-0 CAPLUS 3,8-0iazabicyclo[3.2.1]octane, 3-benzyl-8-phenyl-, picrate (6CI) (CA INDEX NAME)

CRN 102163-86-0 CMF C19 H22 N2

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CRN 88-89-1 CMF C6 H3 N3 O7

L17 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

110553-68-9 CAPLUS 2,5-Pyrrolidinedicarboximide, N-benzyl-1-phenyl- (6CI) (CA INDEX NAME)

111663-65-1 CAPLUS 8-Diazabicyclq[3.2.1]octane, 3,8-dibenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

●2 HC1

ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) ether, the solid collected, treated with a small amt. of H2O, and the undissolved product crystd. from MeON. A soln. of 0.1 mole XI in 100 ml. anhyd. Et2O was added dropwise under stirring and cooling to a suspension of 0.5 mole LiAlH4 in 200 ml. Et2O, the mixt. refluxed 4-6 hrs., cooled to 0.degree. and cautiously decompd. with 50 ml. H2O, stirred 1 hr. at room temp., filtered, the inorg. matter washed with Et2O, the ether exts. collected, dried over Na2SO4 and the solvent evapd. gave I (R, % yield, b.p./mm., mp. of dihydrochloride, methiodide, and dipicrate given): Me, 57, 50-2.degree./8, 260-2.degree., 290-2.degree., 242-5.degree. Bu, 61, 54-5.degree./0.3, 245-7.degree., 218-20.degree., 222-2.degree.; Ph, 64, 104-5.degree. (M). A 55-7.degree., 180-2.degree., 252-4.degree., 250-1.degree., 230-3.degree. A soln. of 5.4 g. I (R = CLZPE) (XII) in 100 ml. abs. EtOH hydrogenated 2 hrs. at 50.degree. and 20 atm. in the presence of 1 g. 10% Pd-C gave 2.8 g. I (R = H) (XIII), b. 193-8.degree.; dihydrochloride m. 314-15.degree. (80% EtOH); methiodide (XIV) m. 224-5.degree.; dipicrate m. 247-50.degree. XIV was obtained by mixing with cooling equimolar amounts of XIII (I g.), and MeI (I.13 g.) in anhyd. Et20 and Keeping 2 hrs. at room temp. The ether filtrate treated with excess MeI and Kept overnight at 0.degree. gave I (R = Me) methiodide, m. 288-90.degree. (EDOH), solon-95-2, 3,8-Diazabicyolo[3.2.1] octane-8-carboxylic acid, (prepn. of)

ΙT

(prepn. of) 96000-95-2 CAPLUS

3,8-Diazabicyclo(3.2.1)octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-, benzyl ester (6CI, 7CI) (CA INDEX NAME)

ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SSSION NUMBER: 1961:137533 CAPLUS MENT NUMBER: 55:137533 FMAL REFERENCE NO.: 55:259671,25968a-i

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NESSION NUMBER: 1961:137533 CAPLUS
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DOORDENT NOMBER: 55:137533
AUTROR(S): 55:137533
Bicyclic homologs of piperazine. I. Synthesis of 8-methyl-3,8-diazabicyclocotanes
CORPORATS GURCE: Lepetit S.p.A., Milan
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Journal of Organic Chemistry (1961), 26, 1500-4
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